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> > Oil and Gas Exploration Drilling and Production Summary 1977

> > > **PAPER 78-1**



Ministry of Natural Resources



January 2nd, 1980.

### ERRATUM APPENDIX III

### PRELIMINARY PROVEN AND REMAINING OIL AND GAS RESERVES

# ORDOVICIAN

COUNTY	POOL	DISCOVERY	PRODUCTION DEC. 31, 1977.	PROVEN RECOVERABLE RESERVES (PRIMARY)	PROVEN RESERVES (SECONDARY)	REMAINING RECOVERABLE RESERVES (PROVEN)
Essex	Colchester	1957	634,738 bbls.	650,000 bbls.		15,262 bbls.
Essex	Malden	1961	129,293 bbls.	140,000 bbls.		10,707 bbls.
Kent	Dover	1917	12,508 MMcf 241,406 bbls.	25,000 MMcf 250,000 bbls.		12,492 MMcf. 8,594 bbls.
			DEVONIAN			
Elgin	Rodney	1949	8,053,324 bbls.	3,900,000 bbls.	4,735,000 bbls.	581,676 bbls.
Lambton	Oil Springs	1858	9,185,802 bbls.	9,300,000 bb1s.		114,198 bbls.

# Oil and Gas Exploration Drilling and Production Summary, 1977

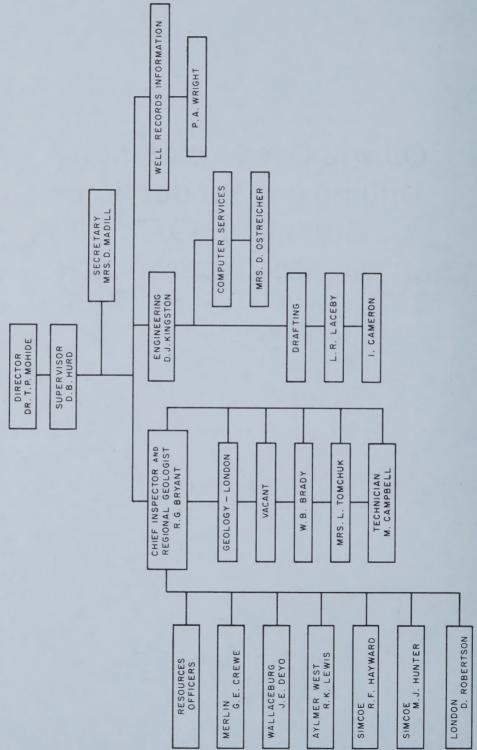
MINERAL RESOURCES BRANCH PETROLEUM RESOURCES SECTION PAPER 78-1

> TORONTO JANUARY 1979



Hon. James A.C. Auld Minister

Dr. J.K. Reynolds Deputy Minister



(Effective as of Jan.1, 1978)

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### **FOREWORD**

This report is distributed free of charge to all persons holding licences during 1977 and through a permanent mailing list to libraries and universities. Additional copies of the report are made available at a price of \$7.50 each. Previous years reports are sold at the prices shown in Appendix IV.

### INTRODUCTION

Information contained in this report has been condensed and processed from records submitted to the Petroleum Resources Section in compliance with the Petroleum Resources Act of 1971, and the Regulations made thereunder. Unless otherwise stated, all statistics and information are reported for the calendar year of 1977. It should be noted that the publication of annual reports is delayed one year because of the confidential status of exploratory well data incorporated within the reports. Where appropriate, information concerning the activities for the year 1978 will be noted.

This volume is divided into 4 sections and 4 appendices. Part 1 contains a brief summary of the organization of the Petroleum Resources Section of the Mineral Resources Group. Part 2, contains the statistical summary of exploration, drilling and production activities for 1977. Part 3, lists all licencees for 1977. Part 4 contains geological and completion data for all wells drilled under permit during 1977. The appendices contain a composite stratigraphic column, cumulative production tables for oil and gas, a preliminary outline of proven oil and gas reserves in Ontario, a list of computer reports available to the public, and a list of available publications and maps.

Geophysical activity during 1977 rose sharply to 2,158 line miles as opposed to the 487 miles run during 1976. The increase was mainly apparent in Huron, Lambton and Middlesex Counties where 1,964 miles of seismic lines were shot in 1977 and 224 miles were shot in 1976. In Huron, Kent Lambton and Middlesex Counties there were 11, 3, 5 and 117-fold increases in seismic activity respectively. Seismic activity fell somewhat in Bruce County and 147 miles of marine seismic were shot in Lake Erie.

Leasing activity on freehold lands in Southwestern Ontario increased by 43% over that in 1976. Leasing activity remained at about the same level in 1977. as that in 1976 for most counties; however, notable increases were apparent in Kent, Lambton, Middlesex and Perth Counties. In Kent County leasing activity rose from 40,102 acres in 1976 to 71,151 in 1977. Similarly, in Lambton County, there was a 33,087 acre gain in 1977 and in Middlesex leasing activity rose by 82, 475 acres to a total of 115,044 acres in 1977. In Perth County there were an additional 35, 280 acres leased in 1977. During 1977 there was marked leasing activity in Waterloo, Welland and Wellington Counties and a total 24, 192 acres were leased in 1977 while none were leased in 1976. The intense leasing activity in Huron County that was experienced in 1976 is showing some decline in 1977. Leasing activity fell by 53,458 acres to 182, 942.

No petroleum and natural gas Licences of Occupation or Leases were held or issued during 1977 for Crown Lands located within the Hudson and James Bay Lowlands. The total acreage held under Licence of Occupation and Lease within Lake Erie remained the same at 2,702,166 acres. All of the lands available in Lake Erie have been acquired and any future increases will reflect the disposition of certain lands within the Buffer Zone.

Drilling activity during 1977 rose slightly from 159 wells in 1976 to 189 wells. Similarly, total footage increased to 320,775 feet from 250,964 feet drilled in 1976. The number of wells drilled in Lake Erie during 1977 fell slightly to 65 down from the 72 wells drilled in 1976.

The Silurian formations were, once again, the main target of exploration in 1977, accounting for 110 of the 124 wells drilled on land and all but 2 of those drilled offshore. The Salina-Guelph formations were the target for 59 wells and 116 wells were drilled into the Clinton-Cataract group. Of those wells that were classed as exploratory tests, there were 8 successful Salina-Guelph wells and 14 wells that discovered gas within the Clinton-Cataract group. One Ordovician oil well was drilled and there were 2 Cambrian gas completions. The overall success ratio for exploratory wells was 43.9 and for development wells 73.5%.

During 1977, gas production in Ontario rose from 4.96 to 8.53 Bcf, a 71% increase over the previous year. However, oil production fell slightly to 618,742 barrels from 1976 production of 621,508. The sharp drop in gas production during 1976 was attributed to a provincial over-supply problem which forced the shut-in of some fields. This problem was solved towards the end of 1976 and 1977 production more accurately reflects present production potential of Ontario gas fields. The 1977 Lake Erie gas production was 5.57 Bcf, nearly twice the 2.84 Bcf produced in 1976. Lake Erie gas fields continue to be the major contributor to Ontario natural gas production by providing 53% of Ontario's production.

Although the Lake Erie acreage is under licence and lease to 7 operators, most of the acreage is under disposition to Anschutz (Canada) Exploration Limited of Calgary and Consumers' Gas Company of Toronto, both of whom drilled all but 4 of the Lake Erie wells during the 1977 drilling season.

### PART I – ORGANIZATION

Petroleum Resources Section of Mineral Resources Branch operates under authority of the Petroleum Resources Act, 1971 and the Regulations made thereunder. Activities of the Section include licensing, regulation and inspection of exploration, drilling and production operations, as well as collection and dissemination of geological data and research. In addition, the Section continued its responsibility with respect to regional geological functions and technical assistance to the Ministry of Energy and the Ontario Energy Board on specific energy related matters.

Administration and engineering offices of the Section are located in Toronto. Geological and sample repository facilities are located in London. Inspection

staff operate from various regional and district offices throughout the Province, as noted in Part IV of this report. Key staff within the Petroleum Resources Section, both in head office and the region, are shown in Figure 1.

Considerable effort is made by the Petroleum Resources Section to encourage exploration by providing current geological and engineering information, data and reports to the industry. In addition to the above, a co-operative research study on the Silurian oil and gas fields in Southwestern Ontario was started in 1976. This project is scheduled for completion in the early months of 1979. A geological research program involving potential hydrocarbon producing formations underlying Lake Erie was completed in 1978. Isopach maps of all significant formations have been made available at a scale of 1:50000. A detailed geological study of the pinnacle reef belt within Lambton County is underway and is expected to be completed by June 1979. A number of Engineering Reports have been underway during the last part of 1978 and are expected to be made available by the end of 1979. These reports will include an interpretive study of the Guelph pinnacle reef belt using wire line log analysis and a summary of drilling, completion and production practices currently in use on Lake Erie.

During 1975 the Section was appointed as a representative to Sector 4.02 of the Metric Commission, as well as an active member to its Legislative Sub-Committee. The Sub-Committee's purpose has been to identify all measurement sensitive clauses and to prepare recommendations for their conversion to SI units. During 1978 final recommended changes were prepared in

TABLE 1 - GEOPHYSICAL ACTIVITY - 1975-1977

County	Miles	1975 Crew Months	Miles	1976 Crew Months	Miles	1977 Crew Months
Bruce	54	.2	56	1.5	19	.7
Cochrane	1100	.3	_	_	_	_
Elgin	142	1.7	_	_		_
Essex	694	9.8	185	6.2	_	-
Huron	636	2.8	87	2.6	993	13.9
Kent	5	.1	10	.2	28	.5
Lake Erie	_		_	_	. 147	.3
Lambton	459	5.0	135	3.8	737	15.7
Middlesex	356	2.8	2	.1	234	3.9
Norfolk	_	_	_	_	_	_
Oxford	7	.4	_	_	_	_
Perth	-	_	12	.7	-	_
TOTALS	3453	23.3	487	15.1	2158	35.0

Method	Crew Months	Crew Months	Crew Months
Gravity	16.2	6.3	2.1
Seismic	5.4	8.8	29.4
Magnetic	1.7	Total - T - 1	3.5
Geochemical	3.0	.3	W
TOTALS	26.3	15.4	35.0

TABLE 2 - ACREAGE LEASED - LAND AREA - 1975-1977

County	1975	1976	1977
Brant	-		779
Bruce	5,575	24,261	29,740
Dufferin	200		- 13
Elgin	20,024	1,194	765
Essex	25,341	11,833	2,588
Haldimand	132	<u>-</u>	1,111
Huron	46.910	236,400	182,942
Kent	25,050	4,102	71,151
Lambton	107,791	31.517	64,604
Lincoln			100
Middlesex	36,432	32,569	115,044
Norfolk	20,892	30,450	5,429
Oxford	4,726	250	488
Perth	-,,,20	511	35,791
Waterloo		_	546
Welland	_	_	23,313
Wellington	12,595	Auna	333
TOTALS	305,668	373,087	534,724

TABLE 3 – ACREAGE UNDER DISPOSITION LAKE ERIE – 1971-1977

Year	Licences of Occupation	Leases	Total Acreage
1977	2,469,559	232,607	2,702,166
1976	2,518,699	183,467	2,702,166
1975	2,523,609	176,592	2,700,201
1974	2,498,271	175.954	2,674,225
1973	2,379,182	159.459	2,538,641
1972	1,468,886	153,789	1,622,675
1971	1,470,896	152,353	1,623,249

conjunction with the Metric Committee of the Ontario Petroleum Institute and legislation in this regard has been enacted. In keeping with the metric conversion across the nation, "M" date for the oil and gas industry is January 1st, 1979. After this date all measurement sensitive items must be reported in metric units.

Petroleum Resources Section has prepared a booklet entitled "Metric" Conversion and Oil and Gas Exploration in Ontario". The booklet includes a wallet-size card including all of the conversion factors to convert commonly used imperial measurements to metric units. The booklet is intended to provide a guide to help in filling out forms required under the Petroleum Resources Act. Both booklet and card are available without charge from the Petroleum Resources Section at either 99 Wellesley Street West, in Toronto, or 458 Central Avenue in London. After January 1, 1979 forms submitted to the Petroleum Resources Section in imperial units will not be accepted and will be returned to the operator for conversion to metric units.

TABLE 4 – SUMMARY OF WELL COMPLETIONS – 1977

COUNTY &	1		Expl	lorator	y			Devel	lopme	nt		Othe	r
TOWNSHIP	G	0	D	T	Footage	G	0	D	T	Footage	No.	Type	Footage
BRANT Brantford Burford Tuscarora			1	1	2,962	1			1	540 575			
ELGIN Dunwich Lake Erie Malahide	4		7	11	19,741 1,126	11		1 4	1 15	589 29,468			
ESSEX Anderdon Gosfield South Malden Rochester Sandwich West		1	1	1	2,703 2,762		22		2	4,028	1	BR PPS	1,223 6,296
HALDIMAND Canborough Lake Erie Seneca South Cayuga						1 2 1 1		1	1 3 1 1	545 2,834 590 671			
HURON Tuckersmith			1	1	1,734								
KENT Camden Gore Lake Erie Orford Raleigh Zone	3		1 3 2	1 6 2	650 18,042 3,628 454	1		3	4	9,081 3,734			
LAMBTON Brooke Dawn Enniskillen Moore Sombra	5 <sup>2</sup> 2	1	1 3 1 2 2	1 8 2 4 2	1,958 15,097 4,191 9,601 4,407	4 <sup>2</sup> 1 3	2 2 1	1 3	1 9 1 6	1,737 16,755 2,164 14,468 2,001	4 2 1	GS BR GS	7,388 5,119 2,350
LINCOLN Caistor Gainsborough						1 2			1 2	410 1.040			
MIDDLESEX McGillivray			1	1	1,853		3 <sup>2</sup>		3	5,196			
NORFOLK Charlotteville Houghton Lake Erie North Walsingham South Walsingham	3 <sup>2</sup> 1 1 3 1		3	3 1 4 3 1	1,511 1,485 7,383 4,436 1,480	15 2 12 8 1		1 10 1	16 2 22 9 1	20,239 2,895 39,956 12,798 1,390			
OXFORD Dereham						2		1	3	2,755			
WELLAND Humberstone Wainfleet						1			1	800	7	GS	5,529
WELLINGTON Arthur			1	1	2,395			2	2	5,038			
WENTWORTH Glanford						2			2	974			
TOTALS	23	2	32	57	109,599	73	10	30	113	183,271	19		27,905
LOST HOLES				0	0				2	736	0		0

NOTE: The following wells are deepenings and only the additional footage drilled has been included

GEL FOX NO. 1-A Gosfield South 4-FWD
HERITAGE DAWN 1-26-11
SUNBURST GB #7 McGillivray 41-N.B.
NEW METALORE 30 Charlotteville 7-7-v
NEW METALORE 25 Charlotteville 2-9-11
Norfolk
C1: DEEPE
Status: OP T.D.: 2459'
Middlesex C1: DEVEL
Status: OP T.D.: 1900,
Norfolk
C1: DEEPE
Status: GP T.D.: 1348' CRAVEN-UNION NORTH WALSINGHAM 8-15-X-A Norfolk C1: DEVEL Status: GP T.D.: 1395'

NOTES: 1. Lost holes not included in total CODE: BR Brine Well number of wells drilled although footage is included.

PPS Petroleum Products Storage

GS Gas Storage ST Stratigraphic Test DISPDisposal Well

2. Deepening.

# TABLE 5 – SUCCESSFUL EXPLORATORY TESTS – 1977

Well Name	County	Township	Location	Date	Total Depth	Deepest Formation	Deepest Producing Formation Formation	Expl. Results Class	Expl. Class
Bluewater Enniskillen 2-30-IX	Lambton	Enniskillen	Lot 30 Conc. 1X	Mar 2 1971	1971	Guelph	Guelph	oil and gas	NPW
Consumers 13262 220-F	Kent	Lake Erie	42°13'50"N 81°24'23'W	Sept 4 2235	2235	Queenston Guelph	Guelph	gas	EXT
Consumers 13399 159-C	Elgin	Lake Erie	42°24'27"N 81°02'45"W	June 4 1000	1000	Salina F shale	Amherstburg	gas	SPT
Craven N. Walsingham 3-8-VII Norfolk	Norfolk	North Walsingham	Lot 8 Conc. VII	Dec 3 1476	1476	Thorold Queenston Grimsby	Thorold Grimsby	gas	NPW
Dow Moore 1-23-XII	Lambton	Moore	Lot 23 Conc. XII	Nov 30 2504	2504	Guelph	Guelph	gas	NPW
Heritage Dawn 1-26-II	Lambton	Dawn	Lot 26 Con. II	Aug 17 1936	1936	Guelph	A-1 Carbonate	gas	NPW
McClure Union Dawn 1.27-VI	Lambton Dawn	Dawn	Lot 27 Conc. VI	Mar 28 1751	1751	Guelph	A-1 Carbonate	gas	NPW
P.H. & H. Malden 3-41-IV	Essex	Malden	Lot 41 Conc. IV	Apr 1	2703	Coboconk Verulam	Verulam	oil and gas	NPW
Ram #51 Dawn 4-33-1X	Lambton	Dawn	Lot 33 Conc. IX	May 20 1927	1927	A-1 Goat Island Carbonate	A-1   Carbonate	gas	NPW

# TABLE 6 - IMPORTANT DRY EXPLORATORY TESTS - 1977

_								
Expl Class	INFW	NPW	NPW	4 NFW	NPW	NPW	NFW	NFW
Results	A-1 Carbonate & Cambrian gas show/abd NFW	Rochester gas show/abd	Guelph gas show/abd NPW	Collingwood & Sept 19 4,526 Pre-Cambrian Cambrian gas show/abd NFW	A-1 Carbonate & Guelph gas show/abd	Dry hole/abd	Dry hole/abd	Salina E Carbonate & Gull River gas show / abd
Total Formation Depth at T.D.	Aug. 16 4,710' Pre-Cambrian	June 26 1,627' Queenston	42°36'30"N Lake Erie 80°57'05"W June 22 1,620 Queenston	4,526 Pre-Cambrian	June 24 2,471 Guelph	July 29 1,734 Goat Island	2,395 Pre-Cambrian Dry hole/abd	2,962 Pre-Cambrian
Date	Aug. 16	June 26	June 22	Sept 19	June 24	July 29	Dec. 8	Aug. 4
Location	42°10'49"N Lake Erie 81°31'24"W	42 35'10"N Lake Erie 80 47'33"W	42°36'30"N 80°57'05"W	42°15'11"N Lake Erie 81°35'24"W	Lot 21 Conc. XII	Lot 26 Conc. 1	Lot 24 Conc. VII	Lot 14 Burford Conc. VIII
Township Location	Lake Erie	Lake Erie	Lake Erie	Lake Erie	Moore	Tucker- Smith		Burford
County	Kent	Elgin	Elgin	Kent	Lambton Moore Conc. XII	Huron	Wellington Arthur	Brant
Well Name	Consumers 13176 222-V	Consumers 13448 57-W	Consumers 13449 55-R	Consumers 13470 176-U	Dow Moore 3-21-XII	Fitzgerald Tuckersmith 2-26-1 Huron	Kenartha No. 8 Arthur 8-24-VIII	Murphy-Redco Burford 7-14-VIII

### PETROLEUM RESOURCES DATA SYSTEM

During 1975 the Section developed a computerized data processing system designed to store and retrieve a variety of geological, engineering and statistical data. The new system was fully implemented during 1977. During 1978 the system has been refined and expanded and is currently capable of generating various computer reports listed in Appendix IV. Final stages of preparing mapping software have been completed and the new mapping capabilities permit plotting and/or contouring of structure or isopach maps of any geological horizon, or combination thereof.

Reports listed in Appendix IV are generated by accessing any or all of the following 3 basic data files: the well file, production file and field file. Well files stored within the system are organized by latitude and longitude and contain all of the data shown on the well cards at the end of this paper. Specific wells required for a report may be retrieved by specifying data items which are common to all wells. The well file is the largest and most actively used file within the system and contains reasonably reliable information on approximately 12,000 wells drilled in Ontario.

TABLE 7 – DRILLING SUMMARY BY AGE – 1977

				Silu	rian								
Age	Dev	onian	Sali Gue		1	ton- aract	Ord	ovician	Cam	brian	Tot	als	
Class	E	D	Е	D	Е	D	Е	D	Е	D	E	D	
Oil Gas Dry	0 0 2	0 0 1	1 7 13	8 12 6	0 14 14	0 61 20	1 0 2	2 0 0	0 2 1	0 0 3	2 23 32	10 73 30	
Sub-Totals	2	1	21	26	28	81	3	2	3	3	57	113	
Other	(	)	1	2		7	(	)	(	)	1	19	
GRAND TOT	TALS 3	3	5	59		116		5		6		189	

TABLE 8 – DRILLING SUCCESS RATIOS – 1977

	E	xploratory			
Age	Gas	Oil	Dry	Totals	% Success
Devonian	-	_	2	2	0.00
Silurian - Salina-Guelph	7	1	13	21	38.1
Clinton-Cataract	14	-	14	28	50.0
Ordovician	_	1	2	3	33.3
Cambrian	2		1	3	66.7
TOTALS	23	2	32	57	43.9

	De	evelopment			
Age	Gas	Oil	Dry	Totals	% Success
Devonian	_		1	1	0.00
Silurian - Salina-Guelph	12	8	6	26	76.9
Clinton-Cataract	61	_	20	81	75.3
Ordovician	_	2		2	100.0
Cambrian	_	_	3	3	0.00
TOTALS	73	10	30	113	73.5

The production file is organized by field name and is capable of storing a 20 year annual and 5 year monthly history of production data. The field file contains information pertaining to location of the field, type of pool, primary and secondary reserves, producing formations, etc. The field records stored within this file are organized alphabetically by field name. Since the old data system did not accommodate any of this type of information, the Petroleum Resources Data System began with an empty bank. Efforts are being made to fill these files, and currently, field location data and production information dating back to 1974 have been stored.

The system is capable of operating conversationally or in batch mode. Most runs are made overnight to take advantage of lower costs and results are usually available the next morning. The user is only charged actual computing costs to the Section. However, the cost of generating most of the reports listed in Appendix IV against approximately 175 well records is in the order of \$5.00 each. The cost is directly related to the number of records retrieved and calculations performed; users are advised of an estimated cost before the computer job is run.

As with all computer systems, reports generated by the Petroleum Resources Data System will only be as accurate as information stored within its banks. The Section is upgrading information stored within all of the data files on a continuous basis in order to make all of the reports more accurate and meaningful.

TABLE 9 - LAKE ERIE DRILLING - 1977

		Exp	loratory			De	velopment	
County	Gas	Dry	Total	Footage	Gas	Dry	Total	Footage
Elgin	4	7	11	19,741	11	41	15	29,468
Haldimand	0	0	0	0	2	1 1	3	2,834
Kent	3	3	6	18,042	1	3	4	9,081
Norfolk	1	3	. 4	7,383	12	10	22	39,956
Sub-Totals	8	13	21	45,166	26	18	44	81,339
GRAND TO	TALS	65 well	s 126,50	)5 feet				

Note: 1 Lost hole not included.

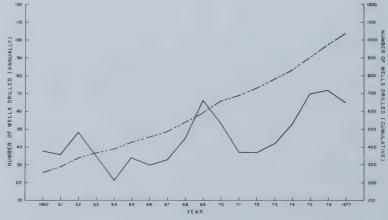


Figure 2 – Lake Erie Drilling Activity

### INDEX OF OIL AND GAS FIELDS

# BRANT COUNTY 1. Brant (G.O.-SIL)

### **BRUCE COUNTY**

2. Hepworth (G.-ORD)

### **ELGIN COUNTY**

- 3. Aldborough (G.-SIL)
- 4. Bayham (G.-SIL)
- 5. Cowal (G.-SIL)
- 6. Crinan (O.-SIL)
- 7. Dutton (O.-DEV)
- 8. Malahide (G.-SIL)
- 9. Mosald (G.-SIL)
- 10. New Glasgow (G.-CAM)
- 11. Rodney (O.-DEV)
- 12. Wallacetown (O.-DEV)
- 13. Willey (O.-CAM)

### **ESSEX COUNTY**

- 14. Belle River (O.-DEV)
- 15. Colchester (O.-ORD)
- 16. Comber (G.O.-SIL)
- 17. Gosfield South (O.-ORD)
- 18. Kingsville-Leamington-
- Mersea (G.O.-SIL)
- 19. Malden (G.-SIL O.-ORD)
- 20. Oxley (G.-SIL)
- 21. Pelee Island No. 1 (O.-SIL)
- 22. Pelee Island No. 2 (O.-SIL)
- 23. Ruscom River (O.-ORD)
- 24. Staples (G.O.-SIL)

### **GREY COUNTY**

25. Egremont (G.-ORD)

### HALDIMAND COUNTY

26. Haldimand (G.O.-SIL)

### **HALTON COUNTY**

- 27. Acton (G.O.-SIL)
- 28. Hornby (G.-ORD)

### **HURON COUNTY**

- 29. Bayfield (G.-SIL)
- 30. Dashwood (G.-SIL)
- 31. Dungannon (G.-SIL)
- 32. Tipperary (G.SIL)
- 33. Zurich (G.-SIL)

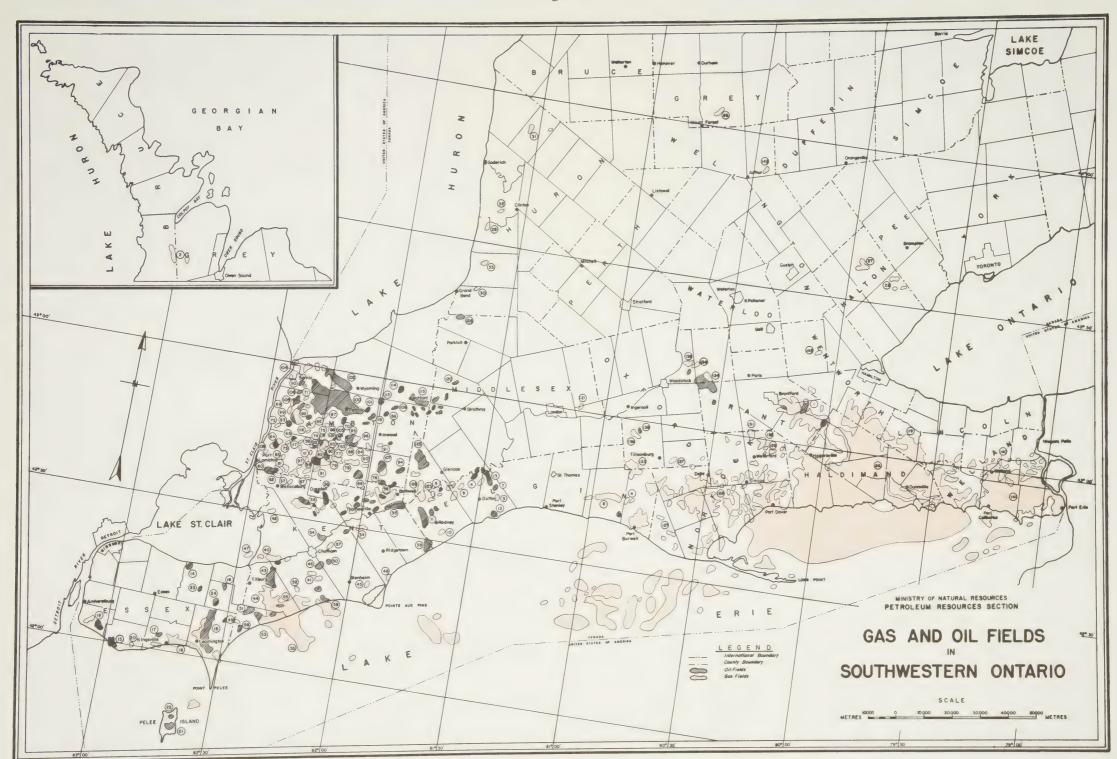
### **KENT COUNTY**

- 34. Botany (G.-SIL)
- 35. Bothwell-Thamesville (O.-DEV)
- 36. Chatham-Dresden-Camden Gore (G.O.-SIL)
- 37. Chatham Gore (G.-SIL)
- 38. Clearville (O.-CAM)
- 39. D'Clute (G.-SIL)
- 40. Dover (G.O.-ORD) 41. Doyles (G.-SIL)
- 42. Electric (G.-CAM)
- 43. Fletcher (O.-SIL)
- 44. Glenwood (O.-SIL)
- 45. Guilds (G.-SIL)
- 46. Kipp (O.–DEV)
- 47. Lake St. Clair (G.-SIL)
- 48. Morpeth (G.-SIL)
- 49. New Wheatley (G.-SIL)
- 50. Richardson's Siding (O.-DEV)
- 51. Romney (O.-DEV)
- 52. St. Patricks (O.-CAM)
- 53. Stevenson (O.-DEV)
- 54. Stewart (O.-DEV) 55. Tilbury (G.O.-SIL)
- 56. Wheatley (G.-SIL)
- 57. Wolfe (G.-SIL)
- 58. Zone (St.-SIL)

### LAMBTON COUNTY

- 59. Avonry (G.-SIL) 60. Becher (O.-SIL)
- 61. Becher East (G.
- 62. Becher West (G.
- 63. Bentpath (ST.-S
- 64. Bickford (St.-SI 65. Brigden (G.O.-S
- 66. Brooke (O.-SIL
- 67. Charlemont (G.
- 68. Clay Creek (O.-
- 69. Colinville East
  - (G.-SIL)
- 70. Corey East (O.-71. Corunna (St.-SI
- 72. Courtwright (G
- 73. Coveny (G.-SIL 74. Cromar East (G
- 74. Cromar East (G
- 76. Dante (O.-DEV
- 77. Dawn (G.O.-SII
- 78. Dawn No. 1 (St 79. Dawn 26.11
- /9. Dawn 26.11 (G.O.-SIL)
- 80. Dawn 4-28-111 (G.-SIL)
- 81. Dawn 47-49 (St.SIL)
- 82. Dawn 59-85 (St 83. Dawn 156 (St.-S
- 84. Dawn 167 (St.-S
- 84. Dawn 167 (St.-185. Duthill (G.-SIL)
- 86. Enniskillen 26
- (G.-SIL) 87. Enniskillen 28
- (G.-SIL) 88. Enniskillen 422
- (G.-SIL) 89. Florence (O.-DI
- 90. General Dawn 5
- (G.-SIL) 91. Inwood (O.-DE'
- 92. Kimball-Colinville (St.-SIL)
- 93. Ladysmith (O.-S
- 94. Mandamin (G.-S 95. Oil Springs
  - (O.-DEV.G.-SI

Figure 3



### INDEX OF OIL AND GAS FIELDS

### **BRANT COUNTY** 1. Brant (G.O.-SIL) **BRUCE COUNTY** 2. Hepworth (G.-ORD) **ELGIN COUNTY** 3. Aldborough (G.-SIL) 4. Bayham (G.-SIL) 5. Cowal (G.-SIL) 6. Crinan (O.-SIL) 7. Dutton (O.-DEV) 8. Malahide (G.-SIL) 9. Mosald (G.-SIL) 10. New Glasgow (G.-CAM) 11. Rodney (O.-DEV) 12. Wallacetown (O.-DEV) 13. Willey (O.-CAM) **ESSEX COUNTY**

### 14. Belle River (O.-DEV) 15. Colchester (O.-ORD) 16. Comber (G.O.-SIL) 17. Gosfield South (O.-ORD) 18. Kingsville-Leamington-Mersea (G.O.-SIL) 19. Malden (G.-SIL O.-ORD) 20. Oxley (G.-SIL) 21. Pelee Island No. 1

(O.-SIL) 22. Pelee Island No. 2 (O.-SIL) 23. Ruscom River (O.-ORD)

24. Staples (G.O.-SIL)

**GREY COUNTY** 25. Egremont (G.-ORD)

HALDIMAND COUNTY 26. Haldimand (G.O.-SIL)

HALTON COUNTY 27. Acton (G.O.-SIL)

28. Hornby (G.-ORD)

**HURON COUNTY** 29. Bayfield (G.-SIL)

30. Dashwood (G.-SIL) 31. Dungannon (G.-SIL) 32. Tipperary (G.SIL)

33. Zurich (G.-SIL)

KENT COUNTY

34. Botany (G.-SIL)

35. Bothwell-Thamesville (O.-DEV)

36. Chatham-Dresden-Camden Gore (G.O.-SIL)

37. Chatham Gore (G.-SIL)

38. Clearville (O.-CAM)

39. D'Clute (G.-SIL)

40. Dover (G.O.-ORD)

41. Dovles (G.-SIL) 42. Electric (G.-CAM)

43. Fletcher (O.-SIL) 44. Glenwood (O.-SIL)

45. Guilds (G.-SIL)

46. Kipp (O.–DEV)

47. Lake St. Clair (G.-SIL)

48. Morpeth (G.-SIL)

49. New Wheatley (G.-SIL)

50. Richardson's Siding (O.-DEV)

51. Romney (O.-DEV)

52. St. Patricks (O.-CAM)

53. Stevenson (O.-DEV)

54. Stewart (O.-DEV) 55. Tilbury (G.O.-SIL)

56. Wheatley (G.-SIL)

57. Wolfe (G.-SIL) 58. Zone (St.-SIL)

LAMBTON COUNTY

59. Avonry (G.-SIL)

60. Becher (O.-SIL)

61. Becher East (G.-SIL) 62. Becher West (G.-SIL)

63. Bentpath (ST.-SIL) 64. Bickford (St.-SIL)

65. Brigden (G.O.-SIL)

66. Brooke (O.-SIL)

67. Charlemont (G.-SIL) 68. Clay Creek (O.-SIL)

69. Colinville East (G.-SIL)

70. Corey East (O.-SIL) 71. Corunna (St.-SIL)

72. Courtwright (G.-SIL)

73. Coveny (G.-SIL)

74. Cromar East (G.-SIL) 75. Cromar West (G.-SIL)

76. Dante (O.-DEV)

77. Dawn (G.O.-SIL) 78. Dawn No. 1 (St.-SIL)

79. Dawn 26.11 (G.O.-SIL)

80. Dawn 4-28-111 (G.-SIL)

81. Dawn 47-49 (St.SIL)

82. Dawn 59-85 (St. SIL)

83. Dawn 156 (St.-SIL)

84. Dawn 167 (St.-SIL)

85. Duthill (G.-SIL) 86. Enniskillen 26

(G.-SIL) 87. Enniskillen 28

(G.-SIL) 88. Enniskillen 422

(G.-SIL)

89. Florence (O.-DEV)

90. General Dawn 5-27-111 (G.-SIL)

91. Inwood (O.-DEV)

92. Kimball-Colinville (St.-SIL)

93. Ladysmith (O.-SIL) 94. Mandamin (G.-SIL)

95. Oil Springs (O.-DEV.G.-SIL) 96. Oil Springs East (G.O.-SHL)

97. Otter Creek (G.-SIL)

98. Otter Creek East (G.-SIL)

99. Payne (St.-SIL)

100. Petrolia (O.-DEV)

101. Petrolia East (O.-SIL)

102. Plympton (G.O.-DEV)

103. Rosedale (St.-SIL) 104. Sarnia (G.O.-SIL)

105. Seckerton (St.-SIL)

106. Seckerton North (G.O.-SIL)

107. Shetland (G.-SIL) (O.-DEV)

108. Sombra (St.-SIL)

109. Sutorville (O.-SIL)

110. Talford (O.-SIL) 111. Terminus (St.-SIL)

112, Terminus North (G.O.-SIL)

113. Wanstead (O.-SIL)

114. Warwick (O.-SIL)

115. Watford-Kerwood (O.-DEV)

116. Waubuno (St.-SIL)

117. Wilkesport (G.-SIL)

118. Wilson Croft (O.-DEV)

LINCOLN COUNTY 119. Lincoln (G.-SIL)

MIDDLESEX COUNTY

120. Adelaide (O.-DEV)

121. Crumlin (G.-SIL)

122. Ekfrid (G.O.-CAM)

123. Glencoe (O.-DEV) 124. Grand Bend (O.-SIL)

125. Mosa (O.-SIL)

126. Wardsville (G.SIL)

NORFOLK COUNTY

128. Norfolk (G.-SIL)

130. Venison Creek (G.-SIL)

132. Wilsonville So. (G.SIL)

127. Hemlock (G.-SIL)

129. Townsend (G.-SIL)

131. Wilsonville (G.-SIL)

133. Brownsville (G.-SIL)

134. Gobles (G.O.-CAM)

137. Norwich South

(G.-SIL)

139. Verschovle West

(G.-SIL)

140. Crowland (St.-SIL)

141. Welland (G.-SIL)

WENTWORTH COUNTY

142. Rockton (G.-CAM)

**WELLINGTON COUNTY** 

143. Arthur (G.-ORD.CAM)

WELLAND COUNTY

135. Innerkip (G.O.-CAM)

138. Verschoyle (O.-CAM)

136. Innerkip East (G. -CAM)

LEGEND

G. - Gas Pool O. - Oil Pool

G.O. – Gas & Oil Pool St. - Storage Pool

DEV - Devonian

SIL - Silurian

ORD- Ordovician

CAM- Cambrian OXFORD COUNTY

96. Oil Springs East (G.O.-SIL) 97. Otter Creek (G.-SIL) 98. Otter Creek East (G.-SIL) 99. Payne (St.-SIL) 100. Petrolia (O.-DEV) 101. Petrolia East (O.-SIL) 102. Plympton (G.O.-DEV) 103. Rosedale (St.-SIL) 104. Sarnia (G.O.-SIL) 105. Seckerton (St.-SIL) 106. Seckerton North (G.O.-SIL) 107. Shetland (G.-SIL) (O.-DEV) 108. Sombra (St.-SIL) 109. Sutorville (O.-SIL) 110. Talford (O.-SIL) 111. Terminus (St.-SIL) 112. Terminus North (G.O.-SIL) 113. Wanstead (O.-SIL) 114. Warwick (O.-SIL) 115. Watford-Kerwood (O.-DEV) 116. Waubuno (St.-SIL) 117. Wilkesport (G.-SIL) 118. Wilson Croft (O.-DEV) LINCOLN COUNTY

NORFOLK COUNTY 127. Hemlock (G.-SIL) 128. Norfolk (G.-SIL) 129. Townsend (G.-SIL) 130. Venison Creek (G.-SIL) 131. Wilsonville (G.-SIL) 132. Wilsonville So. (G.SIL) OXFORD COUNTY 133. Brownsville (G.-SIL) 134. Gobles (G.O.-CAM) 135. Innerkip (G.O.-CAM) 136. Innerkip East (G. -CAM) 137. Norwich South (G.-SIL) 138. Verschoyle (O.-CAM) 139. Verschoyle West (G.-SIL) WELLAND COUNTY 140. Crowland (St.-SIL) 141. Welland (G.-SIL) WENTWORTH COUNTY 142. Rockton (G.-CAM)

**LEGEND** 

G. – Gas PoolO. – Oil Pool G.O. - Gas & Oil Pool St. - Storage Pool

DEV – Devonian SIL – Silurian ORD– Ordovician CAM- Cambrian

119. Lincoln (G.-SIL) MIDDLESEX COUNTY 120. Adelaide (O.-DEV) 121. Crumlin (G.-SIL) 122. Ekfrid (G.O.-CAM) 123. Glencoe (O.-DEV) 124. Grand Bend (O.-SIL) 125. Mosa (O.-SIL)

126. Wardsville (G.SIL)

**WELLINGTON COUNTY** 

143. Arthur (G.-ORD.CAM)

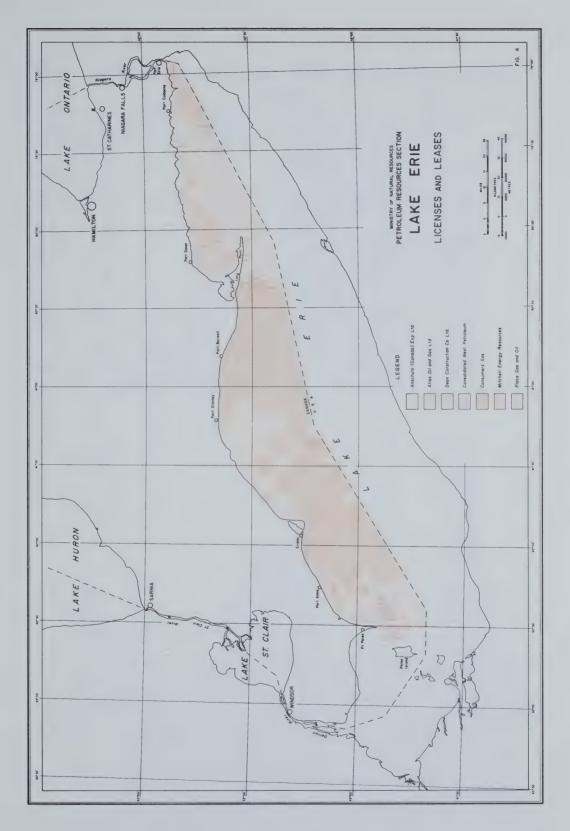
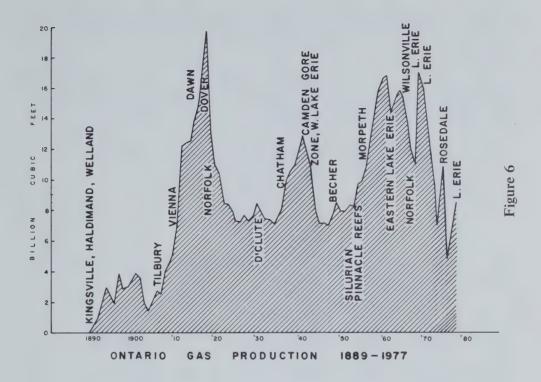


Figure 4 - Lake Erie-Licenses and Leases

TABLE 10 – ONTARIO OIL FIELDS, WELLS, AND PRODUCTION – 1977 In Barrels

County	Field or Pool	Township	Producing Horizons	W E I	LLS Active	Production In Barrels	Firms Producing
Elgin	Rodney	Aldborough	Lucas	37	131	185,548	Rayrock, Canada Cities Service
	Wallacetown	Dunwich	Dundee	_	16	814	Marcus
	Willey	Dunwich	Cambrian	2	12	71,332	Den-Mar, Imperial, Union
Essex	Colchester	Colchester South	Gull River	1	5	6,244	Bradford, Putman
	Kingsville	Gosfield South	Guelph Cobourg		3	7,341	Gaiswinkler
	Malden	Malden	Gull River	_	4	2,286	Bradford
	Ruscom River	Rochester	Verulam	2	1	534	Forbes
Kent	Bothwell- Thamesville	Zone	Dundee Lucas	31	32	9,379	Kodyen, Pope, Sitler
	Chatham	Chatham	A2 Carbonate A2 Carbonate Guelph	-	1	3,339	Riddell-Hanna, York
	Clearville	Orford	Cambrian	9	7	24,414	Murphy
	Dover	Dover	Gull River	-	1	406	Comfort
	Dresden	Camden	A2 Carbonate A1 Carbonate	_	î	1,658	Brett
	Becher West	Sombra	A1 Carbonate	7	21	46,355	Murphy
	Brigden	Moore	A1 Carbonate	-	2	2,333	Consumers'
	Brooke	Brooke	Guelph	_	4	21,796	Cameron, Critchfield
	Corunna	Moore	A1 Carbonate Guelph		10	18,141	Imperial
	Dawn -Misc.	Dawn	A2 Carbonate A1 Carbonate Guelph	6	10	7,493	Various
	Dawn 156	Dawn	Guelph	5	1	3,851	Imperial
	Dawn-Sombra	Dawn	Guelph	-	4	608	Brett
Lambton	Edys Mill	Dawn	Guelph		1	112	Ram
	Enniskillen 30	Enniskillen	Guelph	-	1	7,341	Bluewater
	Ladysmith	Moore	Guelph	3	3	24,308	McClure
	Oil Springs	Enniskillen	Dundee	41	263	24,324	Various
	Oil Springs East	Enniskillen	Guelph	-	1	719	Husky
	Osborne	Moore	Guelph		1	5,697	McClure
	Petrolia	Enniskillen	Dundee Lucas	27	50	20,627	Various
	Petrolia East	Enniskillen	Guelph	2	6	22,221	Ram
	Seckerton	Moore	A1 Carbonate Guelph	1	9	25,331	Imperial
	Shetland	Euphemia	A1 Carbonate Guelph		1	29	Annett
	Sombra	Sombra	Guelph	_	1	105	Southwest
	Sombra (Misc.)	Sombra	Guelph	****	1	90	McClure, Medina
	Sutorville Wanstead	Brooke	Guelph	_	1 3	1,459 4,423	LMG Oils
	Wanstead Warwick	Enniskillen Warwick	Guelph Guelph	-	2	4,423 8,987	Roth & Roth Murphy
	Warwick West Cromar	Moore	Guelph	Pages	1	3,673	Corden
	Wilson Croft	Enniskillen	Dundee	_	2	149	S & W Oil
Middlesex	Ekfrid			3			
Huron	Grand Bend	Ekfrid McGillivray	Cambrian Guelph	1	4	6,193	A.I.S. Sunburst
Hulon	Mosa Mosa	McGillivray Mosa	A1 Carbonate	-	1	15,739 1,161	Bradford
Oxford	Gobles	Blenheim	Cambrian	2	36	31,397	Rayrock
Brant	Innerkip	Blandford	Cambrian	_	3	785	Angelus, Nith River
DIAIII							



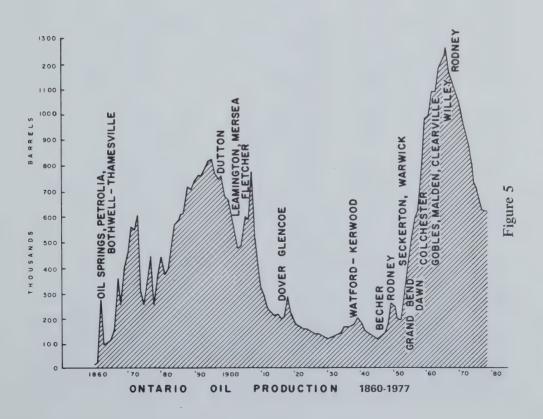


TABLE 11 – ONTARIO GAS FIELDS, WELLS, AND PRODUCTION – 1977 Quantities in Mcf

County	Field	Township	Producing Formations		ells	Average Shut-in W.H.P. p.s.i.a.	Production Mcf	Firms Producing
Brant	Brant	All Townships	Irondequoit		25	114	21,349	Hyslop
			A2 Carbonate		3	368		Union
Elgin	Cowal	Dunwich	A1 Carbonate Guelph	_	3	308	14,705	Onion
	Mosald	Aldborough	A2 Carbonate A1 Carbonate	-	10	385	86,708	Union
	Silver Creek	Lake Erie	Grimsby Guelph Thorold Grimsby	38	29	632	1,800,304	Consumers'
Haldimand	Haldimand	All Townships	Thorold Grimsby Whirlpool	45	197	142	77,371	Various
	Maitland	Lake Erie	Thorold Grimsby Whirlpool	2	60	543	823,561	Anschutz, Place
	Selkirk	Lake Erie	Grimsby	4	33	150	235,669	Place, Mitchell, C.W.P.
Kent	Botany	Howard	A1 Carbonate		2	460	14,985	Cameron
	Camden Gore	Camden	A2 Carbonate A1 Carbonate Guelph	-	13	375	56,238	Union
	Chatham	Chatham	A2 Carbonate A1 Carbonate Guelph	1	17	313	61,292	Union, York
	Dover	Dover	Gull River	2	3	285	66,941	Union
	D'Clute	Raleigh	Guelph	_	1	250	7,236	Union
	D'Clute	Lake Erie	A2 Carbonate A1 Carbonate	-	11	436	110,184	Norcen, C.W.P.
	Morpeth	Howard	A2 Carbonate	3	8	192	27,840	Pegg
	Tilbury	Tilbury East	A2 Carbonate A1 Carbonate Guelph	-	52	126	269,165	Union
	Tilbury	Lake Erie	A1 Carbonate Guelph	2	77	231	752,389	C.W.P.
	Wolfe	Harwich	A2 Carbonate	_	1	730	6,610	MacKay
	Zone	Zone	A2 Carbonate A1 Carbonate	4	36	232	59,901	Union
Lambton	Becher West	Sombra	A1 Carbonate	11	29	210	76,854	Murphy
	Brigden Corunna	Moore Moore	A1 Carbonate A1 Carbonate	_	2 1	_ 76	68,003 1,834	Consumers' Imperial
			Guelph					
	Cromar	Moore	Guelph	1	1	640	37,428	Lee
	Dawn #1	Dawn	A2 Carbonate A1 Carbonate	_	7	110	23,652	Union
	Dawn (Misc.)	Dawn	A2 Carbonate A1 Carbonate	12	10	636	83,927	Various
	Enniskillen 26	Enniskillen	Guelph Guelph	3	1	458	7,747	Union
	Oil Springs East	Enniskillen	Guelph	_		_	655,384	Husky
	Otter Creek Otter Creek East	Sombra Sombra	A1 Carbonate Guelph	3	3	- 510	61,829 12,718	Ram, Shawnee Brett, Cameron
Middlesex	Ekfrid	Ekfrid	Cambrian	3	1	255	11,000	A.I.S.
Norfolk	Clear Creek	Lake Erie	Thorold	32	29	632	922,546	Consumers'
	Dover	Lake Erie	Grimsby Thorold Grimsby	9	81	367	929,069	C.W.P., Mitchell, Place
	Hemlock Norfolk	Houghton All Townships	Grimsby Irondequoit	1 45	6 178	620 225	89,543 694,142	Meylow, Shawnee Various
	Wilsonville South	Townsend	Grimsby Thorold Grimsby	8	16	215	41,839	Various
Oxford	Brownsville	Dereham	Guelph		2	352	9,085	Forbes
	Innerkip Norwich South	Blandford	Cambrian	1	8	247	163,881	Nith River, Ameracrue
Welland	Welland	South Norwich  All Townships	Irondequoit Thorold Grimsby	6	76	92	2,764	Various Various
Wellington	Arthur	Arthur	Black River	2	-	258	38,249	Kenartha

TABLE 12 – PERCENT OIL PRODUCTION BY AGE, 1973-1977

FORMATION AGE	1973	1974	1975	1976	1977
Devonian	45.6	48.0	40.6	44.6	39.2
Silurian	35.2	31.2	31.0	32.1	36.7
Ordovician	1.6	2.0	1.6	1.6	2.4
Cambrian	21.6	19.0	23.2	21.7	21.7
TOTAL	100%	100%	100%	100%	100%
TOTAL PRODUCTION (thousand bbls.)	809	734	704	622	617

TABLE 13 – OIL PRODUCTION BY COUNTY – 1977

County	Production Barrels	% of Ontario Total
Brant-Oxford	32,182	5.2
Elgin-Middlesex	263,887	42.8
Essex	14,661	2.4
Kent	39.196	6.4
Lambton	250,143	40.5
Middlesex-Huron	16,930	2.7
	616,999	100%

TABLE 14 – OIL PRODUCTION IN ONTARIO – 1973-1977 In Barrels

COUNTY	FIELD	1973	1974	1975	1976	1977
Elgin	Rodney	313,753	278,231	234,782	202,543	185,548
	Wallacetown	1,150	1,060	1,002	873	814
	Willey	88,672	84,518	85,989	71,891	71,332
Essex	Colchester	8,632	8,566	7,377	7,017	6,244
	Kingsville	_	_	1,050	3,048	7,341
	Malden	3,627	2,724	3,035	2,512	2,286
	Ruscom River	437	80	688	75	534
Kent	Bothwell-Thamesville	9,147	9.368	9.035	9,493	9,379
	Chatham	2,798	1,894	1,443	2,063	3,339
	Clearville	31,818	31,415	24,112	25,251	24,414
	Dover	359	478	238	229	406
	Dresden	-	665	2,408	2,364	1,658
Lambton	Becher	50,408	55,899	60,373	52,358	46,355
	Bickford	units		90	100	
	Brigden	2,701	2,849	2,231	2,216	2,333
	Brooke	18,327	19,503	23,614	21,911	21,796
	Corunna	26,759	32,987	23,205	19,896	18,141
	Dawn (Misc.)	6,037	4,138	8,269	5,522	7,493
	Dawn 156	2,028	1,150	3,550	4,136	3,851
	Dawn -Sombra	5,966	4,946	8,220	6,917	608
	Edys Mill	_	_	***	_	112
	Enniskillen 30		_	_	_	7,341
	Ladysmith	60.221	46.504	36,393	27,860	24,308
	Oil Springs	. 20.528	21.013	23,267	24.012	24,324
	Oil Springs East	_	110	598	160	719
	Osborne	_			8,212	5,697
	Petrolia	19,998	17,494	17,323	19,486	20,627
	Petrolia East	33,890	26,357	23,599	20.628	22,221
	Seckerton	19,387	20,007	28,538	24,617	25,331
	Shetland		60	59	59	29
	Sombra (Misc.)		290	688	1,821	195
	Sombra 6-28-IX	pp.	171	232		_
	Sutorville	2.082	2,341	1.882		1.459
	Wanstead	7,699	7,489	5,625	5.011	4,423
	Warwick	11,749	10,053	9.292	8,688	8,987
	Welch	11,/72	10,055	1.869	0,000	0,507
	West Cromar	729	1.699	2,724	3,438	3,673
	Wilson Croft	-	-	2,727	-	149
Middlesex/Huron	Efrid		6,002	11.183	3,075	6,193
middlesex/HullOll	Glencoe	2.920	693	17,163	5,075	0,193
	Grand Bend	5,644	6,346	6,038	5,185	15,739
	Mosa Mosa	1,672	1,593	1,316	1,313	1,161
Oxford	Gobles	53,621	48,769	41,293	34,085	31,397
Oxidia	Innerkip	932	986	41,293	34,083	785
TOTALS	imerkip	813,691	738,441	713,280	628,425	618,742
TOTALS		813,091	/38,441	/13,200	020,423	010,742

### PART II - STATISTICAL SUMMARY

### **Geophysical Activity**

During 1977, 31 licences to conduct geophysical or geochemical exploration for oil or gas in Ontario were issued. As noted in the introduction, Ontario experienced a sharp increase in this activity, from 487 miles run in 1976 to a 1977 total of 2,158 miles. The increase was mainly apparent in Huron, Lambton and Middlesex Counties. Approximately 46% of the seismic activity was run in Huron County, 34% in Lambton County and 11% in the Middlesex County. Seismic crews were also busy on Lake Erie and a total of 147 miles were shot. Of the total crew months, 2.1 were attributed to gravity, 29.4 to seismic and 3.5 to magnetic surveys, for a total of 35 crew months. Geophysical activity in Ontario during 1977 has been summarized in Table 1.

### **LEASING**

### Southwestern Ontario

A total of 230 licences to lease were issued during 1977, compared with 195 during the previous year. The total acreage acquired on land amounted to 534,724 acres as compared with 373,087 acres leased during the previous year; this represents an increase of 45% over 1976. Table 2 shows the acreage leased in Southwestern Ontario from 1975 to 1977. It should be noted that these figures only represent new acreage leased on freehold lands and therefore do not reflect total acreage under lease. Further, assignments are not included in these figures. The total increase in leasing activity of 161,637 acres may be attributed primarily to 4 counties: Kent, Lambton, Middlesex, and Perth. There were an additional 67,049 acres leased in Kent representing a 17 fold increase over the previous year, similarly, in Lambton County, an increase of 33,087 acres was realized for a two fold increase over the previous year. In Middlesex County three and a half times as many acres were leased as in 1976 for a total of 115,044. In Perth County 35,280 acres were added in 1977 for an increase of 70 times that of 1976 and in Waterloo. Welland and Wellington Townships 24,192 acres were leased in 1977 where none had been leased in 1976. For most other counties leasing activity remained about the same. A notable exception is Huron County where leasing activity fell from 236,400 acres in 1976 to 182,942 acres in 1977, and in Norfolk County where the 1977 leasing activity fell to 5,429 acres from the previous year's 30,450.

### Lake Erie

In addition to the above responsibilities, the Section also administers Lake Erie Regulations governing disposition of natural gas, Licences of Occupation and Leases within Lake Erie under Ontario Regulations 546/71 made under The Mining Act.

Transactions involving Crown acreage in Southwestern Ontario were again restricted to Lake Erie. The status of drilling in the other Great Lakes, specifically Lake Huron and Lake St. Clair, may be re-examined at some point in the near future by the International Joint Commission. However,

until that time, drilling permits will only be issued for that portion of Lake Erie east of Pt. Pelee and production will continue to be limited to natural gas only.

During 1977 all available acreage in Lake Erie remained under disposition to 7 operators. Table 3 shows acreage licensed and leased for the period 1972 to 1977. Total acreage under disposition remained the same in 1977 at 2,702,166 acres; although, 49,140 acres were converted from an Exploratory Licence of Occupation to a Production Lease. Of the 7 operators within the lake, Consumers' Gas Company, of Toronto, and Anschutz (Canada) Explortion Limited, of Calgary, are the major landholders. Together they hold mineral rights for over 92% of the Canadian side of Lake Erie.

Land rental and royalty payments to the Crown during the calendar year of 1977 for Lake Erie were \$354,123.20 for Licences of Occupation. \$123,027.59 for Leases, and \$443,847.36 for royalties. The increase in royalties over the previous year is a result of increased production rather than any modification to the Crown's royalty formula.

TABLE 15 – PERCENT GAS PRODUCTION BY AGE – 1973-1977

FORMATION AGE	1973	1974	1975	1976	1977
Clinton-Cataract	42	51	19	44	34
Salina-Guelph	54	42	79	51	56
Ordovician	2	2	1	2	4
Cambrian	2	5	1	3	6
TOTAL PRODUCTION (MMcf)	3,133	2,205	5,276	2,110	2,952

TABLE 16 – GAS PRODUCTION BY COUNTY – 1977 (Onshore Production Only)

County	Production Mcf	% of Ontario Production
Brant	21,349	0.7
Elgin	101,413	3.4
Haldimand	77,371	2.6
Kent	570,208	19.3
Lambton	1,029,376	34.8
Middlesex	11,000	0.4
Norfolk	825,527	28.0
Oxford	175,730	6.0
Welland	102,023	3.5
Wellington	38,249	1.3
TOTAL	2,952,246	100.0

### **Hudson and James Bay Lowlands**

The Petroleum Resources Section administers most of the functions with respect to licensing and leasing of oil and gas rights on Crown Lands in the Hudson and James Bay Lowlands. These functions are administered under Regulation 604 R.S.O. 1970, which regulates the oil and gas Licences of Occupation and Leases on Crown Lands above the 51st parallel of latitude. No petroleum or natural gas licences or leases were held or issued in this area during 1977.

TABLE 17 – LAKE ERIE GAS WELLS & PRODUCTION – 1977 at 14.73 p.s.i.a.

County	Field or Pool	Wel Suspend	lls Active	Average Shut-in W.H.P.	Production Mcf
Elgin	Silver Creek	38	29	632	1,800,304
Essex	Atlas D'Clute	6	_ 11	- 436	_ 110,184
Kent	Glasgow Talbot Tilbury	15 14 2	- - 77	818 231	- - 752,389
Haldimand	Maitland Selkirk	2 4	60 33	543 150	823,561 235,669
Norfolk	Clear Creek Dover	32 9	29 81	632 367	922,546 929,069
Welland	Colborne	19	_	_	-
	GRAND TOTALS	141	320		5,573,722

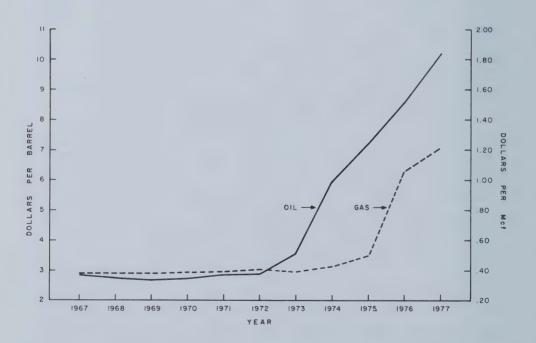


Figure 7 — Average Annual Price Paid for Indigenous Crude Oil & Natural Gas

### DRILLING

A summary of wells drilled during 1977, by classification and by county and township, is shown on Table 4. A total of 189 wells were drilled during 1977, up somewhat from the 159 wells reported in 1976. Similarly, total footage increased to 320,775 from the 250,964 ft. figure drilled in 1976. Of the 189 wells drilled, 57 were classified as exploratory (compared with 58 from the previous year), 113 as development (compared with 92 from the previous year), and 19 in the "other" category which compares with 9 from the previous year. The "other" category includes wells drilled for L.P.G. storage, gas storage and brine protection. Significant discovery wells and dry hole tests are listed in Tables 5 and 6 respectively. Tables 7 and 8 summarize target formations by geological age and their respective production success ratios.

### Southwestern Ontario

A total of 124 wells were drilled on land in Southwestern Ontario, up 43% from the previous year. Of this total, 36 were drilled as exploratory wells, with 15 completed as gas producers, 2 as oil producers and 19 were dry for a total footage of 64,540. Of the 69 development wells drilled, 47 were completed as gas producers, 10 as oil producers and 12 were dry for a total footage of 101,932. These figures represent a 19% success ratio for exploratory tests and 83% for development wells. The 29 drilled in the "other" category accounted for a total of 27,905 feet. They include 3 brine production wells, 12 wells drilled for gas storage and 4 petroleum products storage wells.

### Lake Erie

During 1977, 4 drilling rigs were active on Lake Erie. Two rotary jack up barges and 1 floating drill ship were operated by Underwater Gas Developers Limited (a wholly-owned subsidiary of Consumers' Gas Company, Toronto); specifically, the "Mr. Neil" and "Timesaver II" jack up barges and the "Telesis" floating drill ship. A cable tool jack up platform owned and operated by Place Gas & Oil Company of Toronto was also active. During 1977 sixty-five wells were drilled in Lake Erie as compared with 72 wells for the previous season, for a total footage of 126,505 as compared with 108,954 feet drilled during 1976. Of the 65 wells, 21 were classified as exploratory and 44 were drilled as development wells. Eight of the exploratory tests were completed as gas producers and 13 were dry, for a total footage of 45,166. Of the 44 development wells, 26 were completed as gas producers and 18 were dry, for a total footage of 81,339. These figures represent a 38% success ratio for exploratory wells and a 59% success ratio for development wells. A summary of Lake Erie drilling is shown on Table 9 and a history of Lake Erie drilling activity is shown in Figure 2.

All of the exploration and development drilling was done by the Consumers' Gas Company of Toronto with the exception of 4 wells drilled by Place Gas & Oil Company. Continued effort was made by all Lake Erie operators to plug or re-work marginal wells in accordance with the policies established and designed by agreement between industry and government.

### **PRODUCTION**

Details of oil and gas production by field and pool are shown on Tables 10 and 11 respectively. Crude oil production in Ontario during 1977, amounted to 618,742 barrels representing a one-half of 1% decrease from the previous year. This figure represents 0.3% of total 1977 Ontario crude oil requirement.

Natural gas production in Ontario increased approximately 72% from the previous year for a total output of 8,525,965 Mcf, for 1977, as compared to 4,957,616 Mcf for 1976. During 1976, many local fields were shut-in owing to provincial oversupply of gas. The increase can therefore be attributed to a return to normal production capability of Ontario gas fields. Provincial output supplied about 1.2% of the total Ontario requirement. A graphic history of oil and gas production is shown in Figures 5 and 6 respectively.

The average wellhead price per barrel of oil during 1977 was \$10.73 giving a net value to producers of \$6,639,101.60. The average wellhead price of gas produced was \$1.21 per Mcf, giving a net value to the producers of \$10,316,417.00. Figure 7 shows the average annual price paid for indigenous crude oil and natural gas for the period 1967 to 1977.

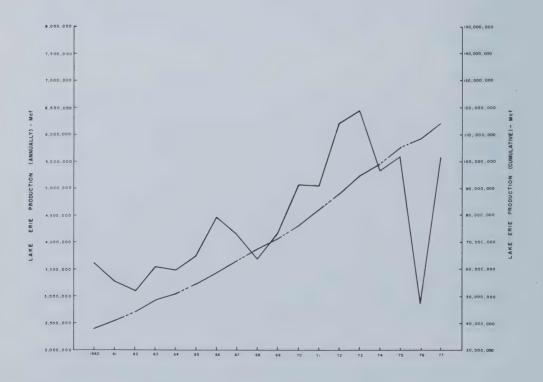


Figure 8 – Lake Erie Production

TABLE 18 – GAS PRODUCTION – 1973-1977 in Mcf

			VICI			
County	Field or Pool	1973	1974	1975	1976	1977
ELGIN	Silver Creek	1,019,202	1,321,965	1,636,314	444,361	1,800,304
	Bayham Cowal	200 15,052	5,700 9.652	14,309	8,719	14,705
	Mosald	92,282	32,981	74,445	56,081	86,708
	Willey	57,198	_	-	-	-
ESSEX	Atlas	722,503	434,257	22,008	_	
	Oxley	844			<u> </u>	_
BRANT						
HALDIMAND	Haldimand (Offshore)	808,512	813,218	702,251	305,037	1,059,230
LINCOLN	Haldimand & Brant Lincoln	128,247 14,849	131,691 9,963	121,677 6,484	112,040 12,905	98,720
(NIAGARA)	Ziiiooiii	11,012	7,705	0,101	12,500	
HALTON	Acton	11,261	_	_	_	_
KENT	Botany	43,572	46,985	16,224	144	14,985
	Camden Gore	79,288	16,723	62,379	49.739	56,238
	Chatham	91,365	57,232	67,041	65,279	61,292
	D'Clute (Lake)	302,039	114,988	209,743	100,562	110,184
	D'Clute (Land)	20,323	8,126	13,911	12,507	7,236
	Dover	10,303	10,452	35,643	46,613	66,941
	Morpeth (Land)	32,195	24,671	25,320	28,481	27,840
	Tilbury (Lake)	1,113,388	518,930	900,088	833,372	752,389
	Tilbury (Land)	343,603	135,891	398,765	363,028	269,165
	Wolfe	9,552	7,792	1,664	6,844	6,610
	Zone	129,930	44,601	77,468	58,541	59,901
LAMBTON	Avonry	43,377	28,880	196	11 226	_
	Becher East	16,684	10,947	8,064	11,236	76.054
	Becher West	116,260	76,280	56,169	72,129	76,854
	Brigden	115,755	75,217	67,024	31,700	68,003
	Cramer Fact	73,013	3,484 47,680	3,152 54,321	3,332 30,184	1,834 37,428
	Cromar East Cromar West		47,000	34,321	30,104	31,420
	Dawn Misc	17 61,559	55,273	92,457	63,547	83,927
	Dawn Misc Dawn No. 1	01,339	10,886	22,258	20,191	23,652
	Dawn 156	14,457	2,373	22,230	20,171	25,052
	Dawn 167	66,136	58,965	107,462	10,130	
	Enniskillen 26	6,851	359	-	-	7,747
	Enniskillen 28	49	_	15	3,011	- ,,, .,
	Mandamin	13,579	3,667	770	_	
	Oil Springs East	´ _	_	_	_	655,384
	Otter Creek	232,858	156,321	123,330	124,390	74,547
	Rosedale	2,637		2,820,536	_	
MIDDLESEX	Ekfrid	5,829	50,187		5,710	11,000
NORFOLK	Norfolk (Lake)	1,816,558	1,687,601	1,991,712	1,164,465	1,851,615
	Norfolk (Land)	982,410	811,341	689,533	666,618	783,685
	Wilsonville	20.617	20.005	91.060	24 117	41 020
OVEGDD	Wilsonville South	29,617	29,095	81,060	24,117	41,839
OXFORD	Brownsville Gobles	3,765	4,596	_	_	9,085
			64,599	61,270	67,941	163,881
	Innerkip Norwich South	64,530 7,989	3,233	1,978	1,368	2,764
	Verschoyle West	1,999	3,233	1,976	1,300	2,704
WELLAND	Welland (Lake)	612,978	440,831	196,945		
(NIAGARA)	Welland (Land)	142,649	123,388	118,481	111,476	102,023
WELLINGTON	Arthur	45,724	45,932	45,004	41,818	38,249
TOTALS		9,522,988	7,536,953	10,927,471	4,957,616	8,525,965
TOTALS		9,322,900	7,550,955	10,727,471	4,257,010	0,525,505

### Crude Oil

The bulk of oil produced in Ontario continued to come from pools producing from Devonian formations, particularly the Rodney Pool, which produced 30% of the Provincial total. Rodney production continued to decline, producing 8% less oil than in 1976. The oldest producing oil fields in Ontario, Oil Springs and Petrolia, combined to produce approximately 11% of the total 1977 production, some 4% more than was produced during 1976.

Silurian production provided 37% of the total, with the most notable pools being the Becher Pool, recording a 12% reduction, the Ladysmith Pool, recording a 11% reduction, the Petrolia East Pool, recording an increase of 8%, and the Seckerton Pool, recording a 3% increase in production. The Brooke and Corunna pools produced an average of 21,000 barrels, down 4% from the previous year's production.

Table 10 shows the oil fields, wells and production during 1977 with Tables 12 and 13 proportioning the total production by age and by county. A summary of oil production in Ontario for 1973 to 1977 is shown on Table 14.

### **Natural Gas**

During 1977 the total production on land in Southwestern Ontario amounted to 2,952 MMcf. The total offshore production was 5,574 MMcf, providing 65% of Ontario's annual natural gas production.

### Southwestern Ontario

The amount of gas produced on land increased by 40% over the 1976 figure. Lambton County was the source of the greatest proportion of Ontario's indigenous natural gas production, accounting for 35% of the total. Most of this production can be attributed to Oil Spring's East Pool which came on stream in 1977. A total of 655,384 Mcf of gas was produced from the Oil Spring's East Pool.

Norfolk County accounted for the second greatest proportion of Ontario gas production, some 28% of the total. Numerous wells producing from small fields, scattered across the county, accounted for 80% of the total Norfolk County production. The remaining 20% was produced from the Hemlock and Wilsonville South fields. Kent County accounts for 19% of the total onshore Ontario production where gas is being produced from the Salina-Guelph formations of several fields, the most notable being Camden Gore, Chatham, Dover and Zone. Together, these fields account for 43% of the Kent County production. The remaining 18% of Ontario's indigenous gas production comes from Elgin, Haldimand, Oxford, Welland and Wellington Counties.

### Lake Erie

During 1977 a total of 5,573,722 Mcf of gas was produced from Lake Erie, accounting for 65% of the gas produced in Ontario. This figure compares

TABLE 19 - GAS STORAGE - SOUTHWESTERN ONTARIO

Reservoir	Zone	Status	Operator	Working Capacity at Original Reservoir Pressure (bcf)	Original Reservoir Pressure (p.s.i.g.)	Working Capacity when delta pressured (bcf)	Reservoir Pressure when delta Pressured (p.s.i.g.)
Bentpath	G,A-1	Active	Union	3.92	867	5.58	1,234
Bickford	G,A-1	Active	Union	14.15	928	19.25	1,263
Corunna	G,A-1	Active	Tec.	3.50	943	5.32	1,434
Crowland	Whirlpool	Active	Cons.	.40	200	.50	628
Dawn No. 1	A-1,A-2	Inactive	Union	88.	092	1.22	1,050
Dawn 156	G,A-1	Active	Union	20.54	880	31.21	1,337
Dawn 167	G,A-1	Inactive	Union	5.00	906	7.10	1,286
Dawn 47-49	G.A-1	Active	Union	3.38	865	4.01	1,027
Dawn 59-85	G.A-1.A-2	Active	Union	4.01	865	4.89	1,054
Kimball Colinville	G.A-1	Active	Tec.	29.70	919	42.75	1,323
Payne	G,A-1	Active	Union	12.53	877	18.67	1,307
Rosedale	G,A-1	Active	Union	2.46	939	3.41	1,301
Seckerton	G,A-1	Active	Tec.	9.00	940	13.26	1,400
Sombra	G,A-1	Active	Union	1.80	939	2.64	1,374
Terminus	G.A-1	Active	Union	8.25	998	11.50	1,207
Waubuno	G.A-1	Active	Union	6.59	931	9.63	1,360
Zone	A-1,A-2	Active	Union	3.60	721	5.16	1,034
TOTAL				129.71		186.10	

TABLE 20 - ONTARIO NATURAL GAS BALANCE - 1977

	Thousands Cubic Feet*	Thousands of Cubic Metres 101.325 kPa and 15 C	Percent of Total	Percent 1977/76	Changes 1976/75
Supply					
Ontario Production Receipts from	8,525,965	241 522	1.2	71.9	-54.7
Western Canada	723,330,903	20 490 402	98.8	1.1	3.0
TOTAL SUPPLY	731,856,868	20 731 924	100.0	-0.5	1.2
Disposition					
Sales to consumers Free Gas Company Use	665,092,373 22,703 23,033,569	18 840 631 643 652 491	90.9 0.0 3.1	-1.8 -21.0 12.5	6.2 8.2 5.8
TOTAL CONSUMPTION	688, 148,645	19 493 765	94.0	-1.4	6.2
Gas to Storage Gas to Province	21,264,664	602 382	2.9	N/C	N/C
of Quebec	7,337,917	207 867	1.0	191.7	81.4
Exports to U.S.A.	15,123,995	428 430	2.1	17.5	4.6
Line Pack Metering, Line Loss and	5,226,516	148 056	0.7	N/C	N/C
Other Unaccounted for	-5,244,869	-148 576	-0.7	N/C	N/C
TOTAL DISPOSITION	731,856,868	20 731 924	100.0	-0.5	1.2

\*At 14.73 psia and 60°F Note: N/C = Not Comparable Source: Ministry of Energy

with 2,847,797 Mcf produced during 1976. Together, Elgin and Norfolk Counties account for 65% of the Lake Erie gas production. The remaining gas is produced from Haldimand and Kent Counties, which account for 19% and 15%, respectively, of the total natural gas produced from Lake Erie.

In September of 1977 producing wells drilled by Anschutz (Canada) Exploration Limited offshore in Haldimand County came on stream. A total of 705,702 Mcf of gas was produced from 36 wells accounting for two-thirds of the natural gas produced from offshore Haldimand County. Anschutz (Canada) Exploration Limited continued drilling in 1978. Pending pipeline development and hook-up of these additional wells, Anschutz should become a major producer of natural gas from Lake Erie in the future. To the end of 1977 a total of 1,038 wells have been drilled in Lake Erie and cumulative production has been 113,912 MMcf of natural gas. Of the 1,038 wells drilled, just over 350 wells are currently producing and 75 are awaiting hook-up. The provincial oversupply problems plaguing 1976 production did not extend into 1977 and all of the Lake Erie gas fields were being produced at their maximum capacity.

Gas production by county is shown on Table 16 and gas production in Lake Erie is on Table 17. The history of gas production in Ontario from 1973 to 1977 is shown on Table 18 and the history of offshore production in Lake Erie is noted in Figure 8.

### TABLE 21 – SUMMARY OF SALT CAVERN STORAGE

Company	Cavern No.	Capacity Barrels	Material Stored	Service	Remarks
Dome Petroleum Ltd. (Sarnia)	RP1 RP2 RP3 RP4 RP5 RP6 RP7 P1 P2 P3 P4	121,000 128,000 187,000 330,000 206,000 340,000 216,000 196,000 202,000 211,000 224,000	C <sub>3</sub> ,C <sub>4</sub> C <sub>5</sub> + C <sub>3</sub> C <sub>3</sub> C <sub>3</sub> C <sub>3</sub> C <sub>3</sub> C <sub>3</sub>	Intermediate Storage Intermediate Storage Intermediate Storage Intermediate Storage Intermediate Storage Intermediate Storage Intermediate Storage Product Storage Product Storage Product Storage Product Storage Product Storage	1 offset well for each
	P6	223,000	C <sub>3</sub>	Product Storage	
	P7 B1	72,000 206,000	iC <sub>4</sub>	Product Storage	Presently being developed
	B2	75,000	iC <sub>4</sub>		Presently being developed
	В3	343,000	nC <sub>4</sub>		Presently being developed
Dome Petroleum Ltd. (Windsor	32B	1,064,045	LPG (butane, propane mix)	Product Storage	two wells per cavern
("masor	33B	1,140,052	LPG (butane, propane mix)	Product Storage	two wells per cavern
	35B	620,043	propane mix)	Presently inactive	two wells per cavern (currently full of brine)
	A59 B59 E59				Presently being developed Presently being developed Presently being developed
Dow Chemical of	6	100,000	C <sub>4</sub> , C <sub>5</sub> +	By-product from	
Canada Limited	7 8 11 12 HC1	130,000 167,000 120,000 125,000 200,000	C <sub>4</sub> C <sub>3</sub> C <sub>3</sub> C <sub>4</sub>	ethylene plant Intermediate Storage Intermediate Storage Intermediate Storage Intermediate Storage Intermediate Storage	
	HC2 HC3 HC4 HC5 HC6	100,000 200,000 200,000 125,000 125,000		Intermediate Storage Intermediate Storage Intermediate Storage Intermediate Storage Intermediate Storage	Presently being developed
	HC7 HC8	75,000 inactive		Intermediate Storage	Inactive
Imperial Oil Limited	981 982 983 985	150,000 240,000 196,000 140,000	Butylene C <sub>3</sub> Fuel Gas Mixed C <sub>3</sub> and C <sub>4</sub>	Intermediate Storage Product Storage Fuel gas storage Slop cavern for light	
	4040 4041	118,000 150,000	C <sub>2</sub> - C <sub>3</sub> -	ends Product Storage Intermediate and product storage	
	4042	220,000	C <sub>2</sub> -	Product Storage	
	4043 4044	250,000 200,000	nC4 C <sub>3</sub>	Product Storage Product Storage	
Polysar Limited	1	79,000	C <sub>4</sub> =,C <sub>4</sub> -,C <sub>4</sub>	Intermediate feed	
Toty said Emilion	2	107,000	iC <sub>4</sub> -,nC <sub>4</sub> -,C <sub>4</sub> nC <sub>4</sub> -,C <sub>4</sub> +C <sub>4</sub> =	stock Primary feed stock Intermediate feed stock	One well per cavern One well per cavern One well per cavern
	4	105,000	nC <sub>4</sub> -,C <sub>4</sub> +,C <sub>4</sub> =	Intermediate feed stock	One well per cavern
	5 7	66,600 79,000	iC <sub>4</sub> -,2%C <sub>4</sub> C <sub>4</sub> =,nC <sub>4</sub> -,iC <sub>4</sub> -	Final Product Intermediate feed stock	One well per cavern  One well per cavern
Shell Canada Limited	W1 W2	190,000 96,000	C <sub>4</sub> C <sub>4</sub> or gasoline components	Intermediate Stoarge Intermediate Gasoline Storage	
	W3 W4	90,000 40,000	Gasoline Propylene	Gasoline Stoarge Final product	
Sun Oil Limited	3 4 5 7 8 9 10 13	125,000 100,000 160,000 70,000 90,000 160,000 100,000 80,000 90,000	Distillates Gasoline nC4 iC4 Gasoline Gasoline Gasoline Gasoline C3-,C4- C3	Distillates Storage Gasoline Storage Intermediate Storage Intermediate Storage Gasoline Storage Gasoline Storage Gasoline Storage Intermediate Storage Product Storage	One well per cavern
Petrosar Limited	FB9125 FB9126 FB9127 FB9129 FB9133	300,000 300,000 250,000 90,000 100,000	C <sub>2</sub> ,H <sub>4</sub> C <sub>2</sub> ,H <sub>4</sub> C <sub>3</sub> ,H <sub>6</sub> C <sub>4</sub> + C <sub>4</sub> -,C <sub>4</sub> +	Final product Final product Final product Final product Product Storage Intermediate Storage	Developed but not in service

### Gas Storage

Table 19 lists the gas storage pools in Southwestern Ontario. No new storage pools were authorized or designated during 1977, therefore total working capacity of the pools remains at 129 billion cubic feet when the pools are filled to their original reservoir pressure. However, storage pool operators have been adding gas to the storage reservoirs so that the working pressure of the reservoirs is now greater than the original reservoir pressure, a process known as delta-pressuring. The pressure is increased in each of the storage pools until the reservoir pressure is two-thirds of the overburden stress. As a result of this delta-pressuring, storage capacity of the pools has been increased to 186 billion cubic feet. All pools, with the exception of the Crowland Pool in Welland County, are located within Lambton County.

### Gas Receipts and Disposition

A summary of the Ontario gas balance for 1977 is shown on Table 20.

### Salt Cavern Storage

A summary of the petroleum products storage caverns is shown on Table 21.

### PART III - LICENCING

# Table 22 — Persons Licensed to Conduct Geophysical — Geochemical Exploration

Amoco Canada Petroleum Co. Ltd	Calgary, Alta.
Anschutz (Canada) Exploration Ltd	
Bluewater Oil & Gas Ltd	Calgary, Alta.
Bowman Development Ltd	Calgary, Alta.
Canada-Cities Service Ltd	Calgary, Alta.
Canadian Superior Oil Ltd	
Chemical Projects Ltd	Rexdale, Ont.
Colfax Surveys Ltd	
Consumers' Gas Co	
Electraflex Surveys Ltd	
Elexco Ltd	
FitzGerald, Norman D	
Gibraltar Mfg. Co	
Kenting Exploration Services Ltd	
McClure Oil Co	Alma, Mich.
McClusky, J.B. Ltd	Willowdale, Ont.
McCollom, E.V. & Co	
Michigan Oil Co	Alma, Michigan
Mid Eastern Oil & Gas Ltd	London, Ontario
Murphy Oil Co. Ltd	Calgary, Alta.
New Unisphere Resources Ltd	Newmarket, Ontario
Pacific Petroleums Ltd	Calgary, Alta.

# Table 22 — Persons Licensed to Conduct Geophysical — Geochemical Exploration — cont'd.

Pounder, Harmon & Hill Inc Lon	don, Ontario
Ram Petroleums LtdToro	onto, Ontario
Rowe, E.P. Oil Ltd Brig	hts Grove, Ont.
Seis-Ex Geophysical LtdDon	Mills, Ontario
Shell Canada Resources Ltd Calg	ary, Alta.
Spelman Prentice	per, Wyoming
Total Petroleum LtdCalg	gary, Alta.
Union Gas Co. of Canada Ltd	tham, Ont.

### Table 23 – Persons Licensed to Lease Oil or Gas Rights

A.I.S. Resources Ltd	. Calgary, Alta.
Anvil Investments Ltd	
Arthur, David J	
Ashland Oil Can. Ltd.	
Astalnok, Julius J.	
Bagnall, Gregory L.	
Bear Creek Resources Ltd.	Toronto Ontario
Bell Stewart M.	
Berry, Daniel S.	
Bishop, Arthur A.	
Bishop, Philip R.A.	
Bluewater Oil & Gas Ltd.	
Bodyk, Jeffrey M	
Bowhomme, Jean-Claude	Agincourt Ontario
Bowman Development Ltd	
Bowman, H.E.	
Bowman, Stuart A	
Boyce, G.D.	
Braund, Ritchie	
Brett, Harold B	
B.R.O. Resources Ltd.	
Burt, R.R.	
Burt, W	. London, Ontario
Burton, John T	. Islington, Ontario
Caley, Thomas G	. Metamora, Michigan
Cameron Petroleums Ltd	
Canada-Cities Service Ltd	
Canadian Superior Oil Ltd	
Carver, Anthony S	
Chittim, Glen	. Chatham, Ontario
Clarke, G.W	. London, Ontario
Clarysse, Roger	. Simcoe, Ontario
Coatsworth, T. Emerson	
Coldicott, J	
Connolly, T.L	. Calgary, Alberta
Consolidated Midvale Exploration Ltd	. Toronto, Ontario

Table 23 — Persons Licensed to Lease Oil or Gas Rights — cont'd.

Consolidated West Petroleum Ltd	Calgary, Alta.
Consumers' Gas Co	Toronto, Ontario
Corden, B.B	St. Clair, Mich.
Craven Oil Company Ltd. Inc	
Crawford, K.E. Ltd.	
Critchfield, G.F.	Watford Ontario
Dana's Dala's	Distance Ostania
Dargie, Robin	Pickering, Ontario
Davidson, Robert G	Calgary, Alberta
Dekker, Clarence	
Dickinson Mines Ltd	
Dome Petroleum Ltd	Calgary, Alberta
Dow Chemical Co. of Canada Ltd	Sarnia, Ontario
Dustan, J	Toronto, Ontario
Elexco Ltd.	London, Ontario
Elford, Robert D	
Emerson, H	Dunnville Ontario
Erieshore Industries Inc.	Toronto Ontario
Falcon Resources Ltd	
Falk E	
FitzGerald, Norman D	
Fotty, Cecil A	Calgary, Alta.
Fraser, C. Douglas	London, Ontario
Fulcher, Jack H	Brantford, Ontario
Gabrieau, Larry	
Gaiswinkler Enterprises Ltd	
Gaiswinkler, Leo F	
Gasoil Financial Corporation	Port Lambton Ont
Gibraltar Mfg. Co	Port Huron Mich
Girling, W.H.	Toronto Ontario
Clanfred Coa Walls I td	Toronto, Ontario
Glenfred Gas Wells Ltd	
Gourlay, Alasdair E	Calgary, Alta.
Hall, Leslie	
Harris, Richard B	
Hayes, Alasdair B.B	Maple, Ontario
Hemlock, Explorations	Langton, Ontario
Herlufsen, Bent E	London, Ontario
Herringer, J.G	Calgary, Alta.
Hodgson, John L	
Hodgson, Lewis	
Hodgson, Wayne Lewis	Tillsonburg Ont
Hoskin, John L.	Calgary Alta
Howard, Robert K	Madiaina Hat Alta
Hott WW	Colors Alta
Ilott, W.W.	Chatham Out of
Imperial Oil Enterprises Ltd	Chatham, Ontario
Imperial Oil Limited	Chatham, Ontario
International Norvalie Mines Ltd	Toronto, Ontario
Jasper Oils Ltd.	Calgary, Alta.
Jeffrey, Sydney J	
Johnson, David L	London, Ontario
Johnson, Kirsten	

Table 23 — Persons Licensed to Lease Oil or Gas Rights — cont'd.

Johnson, R.D.	London Ontario
Kam-Kotia Mines Ltd.	
Keenan, E.J.	
Kempf, Donald J.	Colcomi Alto
Variantly Oil 9 Cas Ca Itd	Markham Ontonia
Kenartha Oil & Gas Co. Ltd	Landan Ontario
Kerkhof, John P	
Kidd, Barron Ulmer	Chatham Ontaria
Kiser, W.R	Colores Alta
Knode, William F	Lambath Ontonia
Kriter, Robert E	Tambeth, Ontario
Lancaster, J	Toronto, Ontario
Langstaff, J	
Lannan, W.F.	
Lawson, George R	
Lowrie, Donald F	
Lunn, Robert J	
MacCaskill, Randy E	London, Ontario
MacQuarrie, D.L.	Calgary, Alta.
Maguire, R.C	Calgary, Alta.
Malo, J	
Maniago, R.R.	
Mann, R.E	Simcoe, Ontario
Manson, Donald	Calgary, Alta.
Marcus, Harold Ltd	Bothwell, Ontario
Marsh, Everett M	Brigden, Ontario
Marsh, Thomas L	Bothwell, Ontario
McClure Oil Company	
McClusky, Betsy J	Willowdale, Ont.
McClusky, Catherine J	Toronto, Ontario
McClusky, J.B. Ltd	Willowdale, Ont.
McClusky, John B	Willowdale, Ontario
McClusky, Susan L	Willowdale, Ontario
McCollum, E.V. & Co	Tulsa, Oklahoma
McGee, Robert	London, Ontario
McKenzie, D.F	
McKenzie, D.I	
McKenzie, Garry D	Columbus, Ohio
McLachlin, D.A	Wallaceburg, Ontario
McLean, A.S.	
McLean, David	
McLean Investment Ltd	Calgary, Alta.
McMillan, D.A.	
McMillan, David A	
McMillan, Gordon	
McMonigal, B.F.	Calgary Alberta
McNally, Norman T	
McNamara, J.C.	
McVittie, J. Neil.	
Mewha, D.J.	
Meylow Oil Co. Ltd.	Tillsonburg Ont
	1111001100115, 0110.

# Table 23 — Persons Licensed to Lease Oil or Gas Rights — cont'd.

Michigan Oil Co	Alma, Michigan
Mid-Eastern Oil & Gas Ltd	London Ontario
Mid-North Engineering Services Ltd	Toronto Ontario
Mitchell, Philip	London Ontario
Maffet Lake Evaluations Inc.	Toronto Ontario
Moffat Lake Explorations Inc	A:las Casia Ont
Morgan, John E	
Morrison, Robert J	Langton, Ontario
Murphy Oil Co. Ltd.	Calgary, Alta.
New Metalore Mining Co. Ltd	Simcoe, Ontario
New Unisphere Resources Ltd	Newmarket, Ont.
Newport, Lorne T	Wardsville, Ont.
New Unisphere Resources Ltd.  Newport, Lorne T.  Nichol, J.J.	London, Ontario
Norgas Development Ltd	Simcoe, Ontario
Norman, J.L.	Calgary, Alta.
O'Brien, Deborah A	Chatham, Ontario
O'Brien, Donald J	Chatham, Ontario
O'Brien, Dorothy M	Chatham, Ontario
Olimer, Jeffrey M.	London Ontario
Onshore Petroleums Ltd.	Islington Ont
O'Shea, Henry J.	
Pacific Petroleums Ltd.	
Palmer, J.D.	
Pan Canadian Petroleum Ltd	Calgary, Alta.
Parker, Ronald	Toronto, Ontario
Parsons, Norman C	Calgary, Alta.
Patterson, Douglas	
Patterson, Edna K	
Patterson, W.F.	
Pegg, Leonard A	Morpeth, Ontario
Petrol Oil & Gas Co. Ltd	. Calgary, Alta.
Petrotech Inc	St. Clair, Mich.
Pinetree Exploration Ltd	. Chatham, Ontario
Pittman, Craig	. Calgary, Alta.
Place Gas & Oil Company Ltd	Toronto, Ontario
Pounder, Harmon & Hill Inc	London, Ontario
Prentice Spelman	Casper, Wyoming
Procan Resources	Toronto, Ontario
Ram Petroleums Ltd	Toronto, Ontario
Rammeloo, Petrus O.J	Blyth, Ontario
Rawlings Drilling Co. Ltd	Chatham, Ontario
Rawlings, F.S	Chatham, Ontario
Rayment, Oliver B	Chatham, Ontario
Reich, Michael	Calgary, Alta.
Richards, Geoffrey W.G	Camlachie, Ontario
Riddell, B	Highland Park, Mich.
Riddell, B	Highland Park, Mich.
Rife, K.C	Galt. Ontario
Robin Red Lake Mines Ltd	Toronto, Ontario
Roth, E.A	Petrolia, Ontario
Roth & Roth Ltd	Petrolia, Ontario

## Table 23 — Persons Licensed to Lease Oil or Gas Rights — cont'd.

Rowe, E.P	
Rowe, M. McLellan	
Samson, Gerald I	
Schiller, Thomas S	
Schneider, John C	Goderich, Ontario
Seis-Ex Geophysical Ltd	Don Mills, Ontario
Seville, John H	
Shakleton, G. Alvin	
Shaw, A.W.	Toronto, Ontario
Shawnee Petroleums Ltd	Mississauga, Ont.
Shell Canada Resources Ltd	
Shirley, Robert D	Orangeville, Ont.
Sidasa Petroleums Limited	
Smith, G	Windsor, Ontario
Smith (Ron) Well Drilling Co. Ltd	Denfield, Ontario
Southwest Petroleums	Windsor, Ontario
Starlite Gas Co. Ltd	
Stokowski, W	Calgary, Alta.
Suburn Petroleums Ltd	Toronto, Ontario
Suja, James	
Sultan Exploration Ltd	
Sunburst Oil Company	
Thibodeau, Leo J	
Thomas, D.W	
Thompson, John W	
Thompson, Kenneth L	Goderich, Ontario
Total Petroleum (N.A.) Ltd	Calgary, Alta.
Tundra Exploration Ltd	
Union Gas Co. Ltd	
Viewpoint Exploration Ltd	Toronto, Ontario
Villani, Aldo M	
Wassman, Steven C	
Wellandport Gas Co. Ltd	
Western Decalta Petroleum Ltd	
White Resources Management Ltd	
Wilson, D. Alexander	London, Ontario
Wilton, Beverly Howard	Toronto, Ontario
Wilton, Harold R	Chatham, Ontario
Wiser Oil Company	Metormora, Michigan
Woods, Randolf C	Calgary, Alta.
Wright, J.C.	Toronto, Ontario
Wrobel, John M	London, Ontario

# Table 24 — Persons Licensed to Produce Oil & Gas

A.I.S. Resources Ltd	 London, Ontario
Alexander, J.W	 Lowbanks, Ontario

# Table 24 – Persons Licensed to Produce Oil & Gas – cont'd.

Ameracrude Inc	Port Lambton, Ont.
Angelus Petroleums 1965 Ltd	Port Lambton, Ont.
Annett, R.M	Bothwell, Ontario
Anschutz (Canada) Exploration Ltd	Calgary, Alta.
Atlas Oil & Gas Ltd	Chatham, Ontario
Ayrheart, Ellwood J	
Ayrheart, Orval & Irene	Petrolia Ontario
Ayrheart, Roy & Merilynne	Petrolia Ontario
Bear Creek Resources Ltd	
Benner, K.W.	Fisherville Ont.
Bluewater Oil & Gas Ltd	Calgary Alta
Bowman Development Ltd	
Bowman, H.E	
Bradford, W.D	Chatham Ontario
Bradley, M	Petrolia Ontario
Brand, R.W.	Petrolia Ontario
Brett, Harold B	
Byers Bros	Oil Springs Ont
Byers, I	
Cameron Petroleums Ltd.	London Ontario
Canada-Cities Service Ltd.	Charleston W Virginia
Colonial Petroleums Ltd.	Chatham Ontario
Comfort, N.E.	Chatham Ontario
Consolidated Midwals Evaluration Ltd	Toronto Ontario
Consolidated Midvale Exploration Ltd	Taranta Ontario
Consumers' Gas Company	
Cordon, Bruce B	St. Clair, Michigan
Coronation Gas Syndicate	Stevensville, Ontario
Craven Oil Company Ltd. Inc.	Dallas, Texas
Critchfield, G.F	Wattord, Ontario
Dawn Petroleums	Wallaceburg, Ontario
Dean Construction Ltd	Tecumseh, Ontario
Den-Mar Brines Ltd	Bothwell, Ontario
Dow Chemical of Canada Ltd	
Edward, F.H. (Estate)	Petrolia, Ontario
Erieshore Industries Inc.	
Fairbank, C.O.	Petrolia, Ontario
Fisherville Gas Syndicate	Fisherville, Ontario
FitzGerald, Norman D	Abilene, Texas
Forbes Petroleum Limited	Tillsonburg, Ontario
Fox, E.S	Welland, Ontario
Gaiswinkler Enterprises Ltd	Chatham, Ontario
Gasoil Financial Corp. Ltd	Port Lambton, Ont.
George, Eugene	Fort Erie, Ontario
Gibraltar Mfg. Co	Port Huron, Michigan
Glenfred Gas Wells Ltd	Jarvis, Ontario
Hemlock Explorations	Langton, Ontario
Hollis IV Ltd	Wheatley, Ontario
Husky Oil Operations Ltd	Calgary, Alta.
Hyslop, George Ltd. Natural Gas. Div	Caledonia, Ontario
Imperial Oil Limited	Chatham, Ontario

# Table 24 – Persons Licensed to Produce Oil & Gas – cont'd.

International Norvalie Mines Ltd	Toronto, Ontario
IU Petroleum Corporation	Dutton Ontario
Jacques, Willis N	
Kenartha Oil & Gas Co. Ltd	
Kodyen, L.M	
Lee Marine Ltd	
Lejeune, L.F	
Lincoln Natural Gas Ltd	Dunnville, Ontario
Linda Lee Syndicate	Fort Erie, Ontario
LMG Oils	
MacKay, A.E. Petroleum Ltd.	Clarkson Ontario
Marous I A	Wallagatawa Ontario
Marcus, L.A.	Wallacetown, Offiano
Marr, Harvey	Wainfleet, Ontario
Marsh, Thomas L	
Matheson, D.W. Electric Ltd	
McClure Oil Company	Alma, Michigan
Medina Natural Gas Co. Ltd	Aylmer W., Ont.
Maylow Oil Co. Ltd	Tillsonburg, Ont.
Michigan Oil Co	
Mitchell, G.	
Moffat Lake Explorations Inc.	
Morningstar, George E	
Morningstar, Lorna	
Morrison, Doris E	
Morrison, Robert J	Langton, Ontario
Mothersbaugh, A. & K. Donald & Helen	Oil Springs, Ontario
Mulgrave Gas Syndicate	Stevensville, Ontario
Murphy Oil Co. Ltd	
Mymryk, Wm.	
Nauman, J.R.	
New Metalore Mining Co. Ltd	
New Unisphere Resources Ltd	
Nith River Petroleums Ltd	
Norcen Energy Resources Ltd	
Norgas Development Ltd	Simcoe, Ontario
Onaco Petroleums Ltd	Toronto, Ontario
Ort, C.H.	
Palsco, David	
Pegg, L.A.	
Place Gas & Oil Company	
Pope, W	Bothwell, Ontario
Pounder, Harmon & Hill Inc.	London, Ontario
Putman, Scott J	Petrolia, Ontario
Ram Petroleums Ltd	Toronto, Ontario
Rayrock Mines Ltd	Toronto, Ontario
Riddell Hanna Exploration Ltd	High Park, Mich.
Roberts, C.H	Coudersport, P.A.
Roth & Roth Ltd.	
Ruch, Ken	
Ruegg Gas	
Ruoge das	Mageway, Olitario

Table 24 – Persons Licensed to Produce Oil & Gas – cont'd.

S. & W. Oil Company
Simon, B Stevensville, Ont.
Sitler, Delbert R
South West Petroleum Windsor, Ontario
Starlite Gas Company Ltd Lakeview, N.Y.
Stevenson, Dorothy Petrolia, Ontario
Suburn Petroleums Ltd Toronto, Ontario
Sunburst Oil Co London, Ontario
Thompson, A Petrolia, Ontario
Tunks, James Bothwell, Ont.
Union Gas Ltd Ont.
Viewpoint Explorations Ltd Toronto, Ontario
Wellandport Gas Co. Ltd
Whorton Associates Wellsville, N.Y.
Woods, Lloyd
York Producing Co. Ltd Bolivar, N.Y.
Yuez Gas Co

Table 25 — Owners of Licensed Drilling Machines

	No. o
Name Address	Rigs
Allied Drilling & Servicing Ltd Wardsville, Ont.	2
Canadian Longyear Ltd North Bay, Ont.	2
Casselman, Ramon H Williamsburg, Ont.	1
Corunna Petroleum Ltd Corunna, Ont.	2
Critchfield, G.F Watford, Ont.	1
Crowley Groundwater Ltd Dundas, Ontario	. 1
Faulkner Well Drilling Co. Ltd Cayuga, Ontario	1
Gerard, Kenneth Drilling Wardsville, Ont.	1
Johnston, F.E. Drilling Co. Ltd Ottawa, Ontario	1
Kriter, Robert E Lambeth, Ont.	1
Lambton Area Industries Ltd Sarnia, Ontario	1
Marsh, Tom Bothwell, Ont.	1
Maverick Drilling Wallaceburg, Ont.	1
McKinney Drilling Company Nacogdoches, Texas	1
Mitchell, Elgin & Sons Jarvis, Ontario	5
Moerschfelder, Fred Fisherville, Ont.	2
Montgomery Bros Selkirk, Ontario	1
Nauman, J.R Fisherville, Ont.	1
Newport, Harvey	1
Newport, James R Oil Springs, Ont.	1
Newport, Lorne T Wardsville, Ont.	2 2
Newport, Wellington R. & Sons Wardsville, Ont.	2
Place Gas & Oil Co. Ltd Toronto, Ont.	2
Rawlings Drilling Co. Ltd	6
Rose, Murray Port Rowan, Ont.	3

# Table 25 — Owners of Licensed Drilling Machines — cont'd.

Rose, Charles Port Rowan, Ont.	1
Smith (Ron) Well Drilling Denfield, Ont.	1
South Western Drilling Ltd Port Lambton, Ont.	1
Stevenson Drilling Dresden, Ont.	1
Tremblay Drilling Co. Ltd	4
Underwater Gas Developers Port Colborne, Ont.	8
Union Gas Co. of Canada Ltd Chatham, Ont.	2
Weber, Ronald C	1

#### PART IV - GEOLOGICAL AND COMPLETION DATA

The geological and completion data for each well drilled in 1977 is summarized on a well history card. Half-scale photographic reproductions of these cards appear in Part IV of this publication.

Prints of the original cards for 1977 as well as for previous years may be obtained at 25 cents each. Microfilm containing the well history cards for wells drilled up to December 31st, 1973 (approximately 15,000 wells) is available at a cost of \$100.

#### **Explanation of Data Items and Abbreviations**

A brief explanation of the various items and abbreviations used is as follows:

WELL NAME: The official name of the well as issued on the Permit to Bore, Drill or Deepen a Well, Form 106.

PERMIT NO.: This number is assigned to the well location upon approval of the Application for a Permit to Bore, Drill or Deepen a Well. Where the original location is abandoned as a result of drilling or completion difficulties, and the rig is moved or "skidded" to a new location within the same drilling tract, the original Permit No. using the alphabetical suffix "A" will apply to the second well.

CLASSIFICATION: Each well is classified at the time the Application for a Permit to Bore, Drill or Deepen a Well is approved. This classification is based on the Lahee System introduced in 1939 by the American Association of Petroleum Geologists for world-wide usage. The definitions are based upon the degree of risks assumed by the operator who drills the tests.

The well categories of the Lahee System are defined as follows, including also the abbreviations used in this report:

## 1. Exploratory Category

An Outpost of Extension Test (EXPLO-EXTEN) is located and drilled with the expectation of extending for a considerable distance the productive area of a partly developed pool. It is usually two or more locations distant from the nearest productive area. If it is successful in its original object, it will add materially to the productive area of the pool.

A Shallower-Pool Test (EXPLO-SHALL) is exploratory only if drilled in search of some new productive reservoir, unknown but possibly suspected from data secured from other wells. The test must be located within the productive area of a pool or pools previously suspected to contain hydrocarbons.

A Deeper-Pool Test (EXPLO-DEEPE) is an exploratory hole located within the productive area of pool or pools already partly or wholly developed. It is drilled below the deepest such pool penetrated by it to explore to deeper unknown prospects. Such a hole may extend to a deeper pool which had been partially developed in another part of the field.

A New-Pool Wildcat (EXPLO-NPW) is a well: (1) Located at a relatively con-

siderable distance outside the limits of producing or producible pools as these limits are known at the time of drilling, and (2) Drilled on a structure or in a geologic environment where other pools have been found but where the complexities in the underground geological conditions are so great that searching for a new pool is hazardous. The objective of a New-Pool Wildcat is the discovery of a new pool in a field already discovered.

A New-Field Wildcat (EXPLO-NFW) is a well: (1) Located at a relatively considerable distance outside the limits of producing or producible pools as these limits are known at the time of drilling, and (2) Drilled on a geologic structure or a geologic environment where hydrocarbons have as yet not been discovered. The objective of a New-Field Wildcat is the discovery of a new field.

#### 2. Development Category

A Development Well (Devel) is a well drilled with the object of further exploiting a hydrocarbon accumulation of a pool within the area which has already been essentially proved for production in this pool. Such a well may be inside the pool as already outlined by producing or producible wells, or it may be a relatively short distance outside these limits.

#### 3. Other

A well that is not classified as exploratory or development but drilled for purposes as defined by Section 15, Ontario Regulation 45/72.

A summary of the abbreviation codes used to describe the well category is listed below.

#### **Abbreviation Code**

EXPLO NFW **NPW** DEEPE SHALL **EXTEN** DEVEL **OTHER** INJEC STRAT **STORA** BRINE DISPO **SOURC** OBSER **UNCLA** LOST

### Category

Exploratory
New Field Wildcat
New Pool Wildcat
Deeper Pool Test
Shallow Pool Test
Extension
Development
Other
Injection
Stratigraphic Test
Storage
Brine
Disposal
Source
Observation

Unclassified

Lost Hole

GEOGRAPHIC DESCRIPTION: Wells are listed alphabetically by County and Township and numerically by Lot and Concession. Since the well summary cards are generated directly from computer storage, codes are necessary for alphabetic lots and lengthy concession names.

Code names for Lots are as follows:

498	Pt. Albino	505	E
499	Naval Reserve	506	F
500	Indian Reserve	507	G
501	A	508	J
502	В	509	Y
503	C	510	Z
504	D	511	Gore

Abbreviations for Concessions are as follows:

AUS	Ausable	NTR	North Talbot Road
BF	Broken Front	NUR	North Union Road
FLH	Front Lake Huron	R	Range
LRE	Lake Road East	SB	South Boundary
LRW	Lake Road West	SLR	South Lake Road
NB	North Boundary	STR	South Talbot Road
NLR	North Lake Road	SUR	South Union Road

CO-ORDINATES: Surveyed co-ordinates for all land wells are given in feet from lot lines, unless otherwise stated. Surveyed co-ordinates for Lake wells are recorded by latitude and longitude, in degrees, minutes and seconds. Latitude and longitude values for all land wells have also been determined and appear in this report.

ELEVATION: Ground elevation in feet above sea level plus number of feet to rig floor or kelly bushing.

SPUDDED: Date of spudding; the date that the actual drilling commenced.

COMPLETED: Date of completion; the date that drilling was completed and total depth was reached.

NATURAL FLOW: Initial oil and gas production rates prior to well treatment or stimulation.

RIG TYPES: Abbreviations for rig types are as follows:

CAB	Cable Tool Rig	ORF	Offshore Rotary Floater
ROT	Rotary Rig	ORS	Offshore Rotary Semi
OCP	Offshore Cable Platform		Submersible
ORJ	Offshore Rotary Jackup	UNK	Unknown

FINAL RESULTS: Oil and gas production rates after treatment or stimulation where applicable.

FINAL STATUS: The status of the well after completion.

SAMPLES: Drill cutting samples are retained for all wells and are available for examination at:

Sample Repository, Petroleum Resources Section, Ministry of Natural Resources, 458 Central Avenue, London, Canada N6B 2E5

CORES: The intervals cored are given and unless otherwise stated, the cores are stored at the Repository.

A summary of the abbreviation codes used to describe the core type is listed below:

Abbreviation Code	Core Type
CC2	Conventional (greater than 2")
SC2	Slimhole (less than 2")
CCF	Full Width Slab
CC1	One Inch Wedge
SCS	Slimhole Slabbed
CCO	Core Chips Only
RSO	Representative Sections Only

TREATMENT: If a well has been stimulated to increase production a treatment code is included to indicate the type of stimulation program. A summary of the abbreviation codes used to describe the treatment type is listed below:

Abbreviation Code	Treatment
ACID	Acidized
CONF	Fracture-conventional
LARF	Fracture-large volume
FOAM	Fracture-foam
SHOT	Explosives-shot
DYNM	Explosives-Dynamite
NTGY	Explosives-Nitroglycerine

LOGGING RECORD: The type of logs taken at the well and the logging company are recorded using the following abbreviation codes:

Abbreviation Code	Log Type
ACSL	Acoustic
CALP	Caliper
CBND	Cement Bond
CLOL	Chloride
CMPL	Completion
CONL	Contact
CDM	Continuous dip meter
DENL	Density, Compensated
DIPM	Dipmeter
DIRS	Directional Survey
ES	Electric Survey
EPTL	Experimental
FOCL	Focus

WLS Water Location Survey	FRXL GGDL GRL GRNL GRSL GRSL HCDL ISOL IES LATL LSL MICL MLAT MSGM MICS MINL MINF NEUT MAGL PRMS PRXL SONL SRSL SYRG TMPL RTRS TDL VELS WLS	Forxo Gamma-Gamma Density Gamma Ray Gamma Ray-Neutron Gamma Ray-Sonic Guard Hydrocarbon Completion Record Induction Electric Survey Dual Induction Laterolog Limestone Microlog Microlaterolog Microseismogram Microsurvey Minilog Minifocus Neutron Nuclear Magnetism Permeability, Spinner Proximity Sonic Borehole, Compensated Seismic Reference Synergic Log System Temperature Radioactive Tracer Temperature Differential Velocity, Accoustic Water Location Survey
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DEEPENING: For those wells deepened in 1977 the complete well record is included.

GEOLOGY: The geological markers are supplied by Ministry Geologists. For each well the method used to determine these markers (samples, R/A log, etc.) is recorded. Unpublished operator geological markers are available from the Ministry on request.

The nomenclature used in this report is based on published descriptions of the various geological units and in accordance with the standards established by the Ontario Stratigraphic Committee.

#### REFERENCES:

R. J. Beards	Guide to the Subsurface Palaeozoic Stratigraphy of Southern Ontario, O.D.E.R.M. Paper 67-2.
B. V. Sanford	Sources and Occurrence of Oil and Gas in the Sedimentary Basin of Ontario. Map 1263A.
C. G. Winder	Lexicon of Palaeozoic Names in Southwestern Ontario.

GEOGRAPHICAL INSPECTION AREAS: Southwestern Ontario is divided into six geographical inspection areas, Application for a Permit to Bore, Drill or Deepen a Well within these areas should be forwarded to the area Petroleum Resources Officer, Ministry of Natural Resources.

These areas shown in Figure 9 have the following district offices:

Chief Inspector: R. G. Bryant, 1106 Dearness Drive, London N6E 1N9; 519-681-5250, Ext. 44. Residence 519-472-3207.

Area 1: G. E. Crewe, Port Crewe, R.R. #3, Merlin NOP 1W0; 519-689-4889.

Area 2: J. E. Deyo, R.R. #5, Wallaceburg N8A 4L2; 519-627-1966.

Area 3: R. K. Lewis, Ministry of Natural Resources, 353 Talbot Street West, Avlmer West N5H 2S8: 519-773-9241.

Area 4: M. J. Hunter, 645 Norfolk Street N., Simcoe N3Y 3R2; 519-426-7650.

Area 5: R.F.S. Hayward, 645 Norfolk Street N., Simcoe N3Y 3R2: 519-426-7650.

Area 6: D. Robertson, Ministry of Natural Resources, 458 Central Avenue, London N6B 2E5; 519-433-8431.

All other inquiries should be directed to:

Petroleum Resources Section, Ministry of Natural Resources

99 Wellesley St. W.,

4th Floor

Toronto, Ontario

M7A 1W3

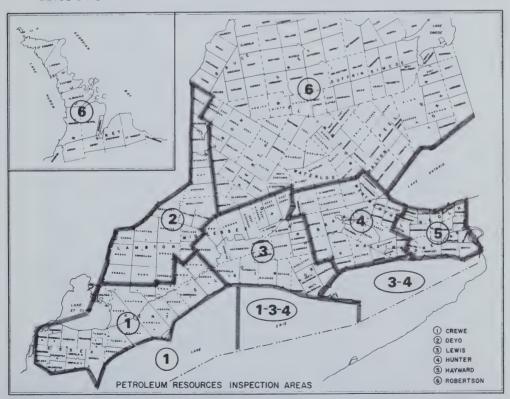
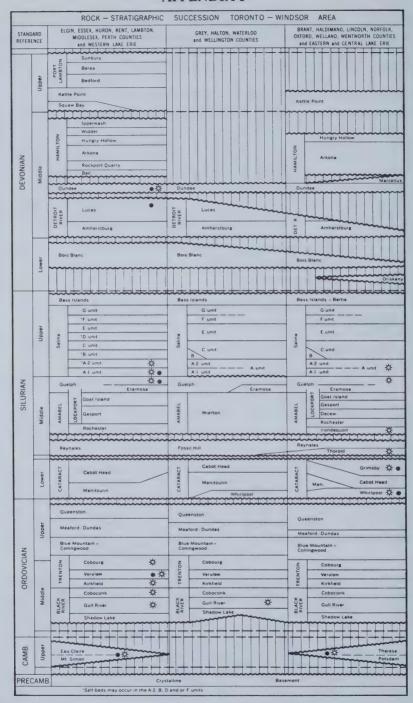


Figure 9 — Geographical Inspection Areas

#### APPENDIX I



Composite Stratigraphic Column

Appendix I is a composite stratigraphic column showing the various geological units in accordance with the standards established by the Ontario Stratigraphic Committee. This terminology is somewhat modified from that used in previous years and appears on G.S.C. Map 1263A and O.D.E.R.M. Map 69-1.

### APPENDIX II ONTARIO CRUDE OIL PRODUCTION ANNUAL AND CUMULATIVE 1863 – TO DATE

ear ear	Annual Production	Cumulative Production	Year	Annual Production	Cumulativ Production
	(bbls)	(bbls)		(bbls)	(bbls)
863	114,000 (est.)	114,000	1921	172,858	27,302,71
864	148,000 (est.)	262,000	1922	164,732	27,467,44
865	182,000 (est.)	444,000	1923	159,399	27,626,84
			1924	154,317	27,781,16
866	216,000 (est.)	660,000	1925	144,249	27,925,41
867	250,000 (est.)	910,000		100000	
868	284,000 (est.)	1,194,000	1926	136,971	28,062,38
869	318,000 (est.)	1,512,000 1,869,100	1927 1928	139,606 134,164	28,201,98 28,336,15
870	357,100 (est.)	1,009,100	1929	121,125	28,457,27
871	364,247 (est.)	2,233,347	1930	117,302	28,574,58
872	371,394 (est.)	2,604,741	1700	,	20,07.,00
873	378,541 (est.)	2,983,282	1931	122,364	28,696,94
874	385,688 (est.)	3,368,970	1932	130,343	28,827,28
875	392,835 (est.)	3,761,805	1933	136,058	28,963,34
			1934	141,385	29,104,73
876	399,982 (est.)	4,161,787	1935	165,040	29,269,77
877 978	407,129 (est.)	4,568,916	1936	165.494	20 425 24
878 879	414,276 (est.) 421,423 (est.)	4,983,192 5,404,615	1936	165,494 165,205	29,435,26 29,600,46
880	421,425 (est.) 428,571 (est.)	5,833,186	1938	172,642	29,773,11
-50	.20,071 (031.)	5,055,100	1939	206,379	29,979,49
881	457,100 (est.)	6,290,286	1940	187,644	30,167,13
882	485,710 (est.)	6,775,996			
883	514,286 (est.)	7,290,282	1941	159,438	30,326,51
884	548,571 (est.)	7,838,853	1942	143,945	30,470,4
885	585,710 (est.)	8,424,563	1943	132,492	30,602,9
006	614,280	9,038,843	1944 1945	125,067	30,727,9
886 887	620,000	9,658.843	1743	113,324	30,841,3
888	725,000	10,383,843	1946	123,082	30,964,3
889	710,000	11,093,843	1947	131,295	31,095,6
890	750,000	11,843,843	1948	176,989	31,272,60
			1949	260,670	31,533,33
891	775,000	12,618,843	1950	250,656	31,783,99
892 893	765,000 800,000	13,383,842 14,183,843	1951	197,171	31,981,10
894	825,000	15,008,843	1952	191,813	32,172,9
895	835,000	15,843,843	1953	299,685	32,472,60
		,,	1954	412,474	32,885,1
896	780,000	16,623,843	1955	525,509	33,410,64
897	750,000	17,373,843			24.004.0
898	770,000	18,143,843	1956	593,370	34,004,01
899	685,000	18,828,843	1957	623,666	34,627,68
900	675,000	19,503,843	1958 1959	778,341 1,001,580	35,406.02 36,407,60
901	625,000	20,128,843	1960	1,005,030	37,412,6
902	530,000	20,658,843	1,000	1,000,000	07,122,0
903	475,000	21,133,843	1961	1,149,087	38,561,7
904	485,000	21,618,843	1962	1,134,534	39,696,2
905	605,000	22,223,843	1963	1,205,376	40,901,61
	****		1964	1,246,682	42,148,3
906	588,962	22,812,805	1965	1,279,162	43,427,4
907	779,876	23,592,681	1966	1,323,781	44,751,2
908 909	528,959 420,660	24,121,640 24,542,300	1967	1,240,298	45,991,5
910	314,410	24,856,710	1968	1,150,779	47,142,3
	017,710	2.,000,.20	1969	1,161,889	48,304,2
911	288,634	25,145,344	1970	1,048,466	49,352,6
912	240,935	25,386,279			
913	266,165	25,612,444	1971	958,104	50,310,7
914	212,495	25,824,939	1972	878,108	51,188,89
915	214,442	26,039,381	1973	808,649	51,997,5
916	196,876	26,236,257	1974	734,068 704,323	52,731,6 53,435,9
916 917	202,990	26,439,247	1975	707,323	55,755,7
918	288,760	26,728,007	1976	621,508	54,157,4
919	220,100	26,948,107		021,000	- 1,227,1
920	181,750	27,129,857	1977	618,742	54,776,18

### ONTARIO NATURAL GAS PRODUCTION ANNUAL AND CUMULATIVE 1890 – TO DATE

Year	Annual Production	Cumulative Production	Year	Annual Production	Cumulative <b>Production</b>
1890-	(M.c.f.)	(M.c.f.)		(M.c.f.)	(M.c.f.)
1905	Estimated	44,413,476	1941	11,828,703	393,100,758
1906	2 5 2 4 200		1942	10,476,770	403,577,528
1906	2,534,200	46,947,676	1943	7,914,408	411,491,936
	4,155,900	51,103,576	1944	7,082,509	418,574,445
1908	4,483,000	55,586,576	1945	7,199,970	425,774,415
1909	5,388,000	60,974,576	1946	i i	
1910	7,263,300	68,237,876		7,051,309	432,825,724
1911	12,311,900	80,549,776	1947	7,785,921	440,611,645
1912	12,454,900	93,004,676	1948	8,590,429	449,202,074
1913	12,558,400	105,563,076	1949	8,024,213	457,226,287
1914	14,062,800	119,625,876	1950	8,302,190	465,235,775
1915	15,212,300	134,838,176	1951	8,442,842	473,678,617
1016			1952	8,009,488	481,980,807
1916	17,929,100	152,767,276	1953	9,835,469	491,816,276
1917	20,026,000	172,793,276	1954	10,015,818	501,832,094
1918	13,067,400	185,860,676	1955	10,852,857	512,684,951
1919	11,195,300	197,055,976			
1920	10,545,000	207,600,976	1956	12,811,618	525,496,569
1921	8,532,234	216,133,210	1957	14,400,913	539,897,482
1922	8,568,301	224,701,511	1958	16,147,986	556,045,468
1923	8,128,413	232,829,924	1959	16,839,236	572,884,704
1924	7,370,914	240,200,838	1960	18,256,641	591,141,345
1925	7,257,274	247,458,112	1961	14,544,165	605,685,510
1926	7.776.406		1962	15,593,784	621,279,294
1920	7,776,496	255,234,608	1963	15,920,055	637,199,349
1927	7,311,214	262,545,822	1964	13,815,967	651,015,316
1928	7,632,740	270,178,562	1965	12,699,483	663,714,799
1929	8,583,187	278,761,749			
1930	7,943,416	286,705,165	1966	15,537,157	679,251,956
1931	7,419,534	294,124,699	1967	12,288,759	693,480,715
1932	7,386,154	301,510,853	1968	12,065,829	705,546,544
1933	7,166,659	308,677,512	1969	11,237,888	716,784,432
1934	7,682,851	316,360,363	1970	16,649,459	773,433,891
1935	8,185,825	324,546,188	1971	16,167,731	749,601,622
1936	10,006,743		1972	12,375,129	761,976,751
1936		334,552,931	1973	9,528,102	771,504,853
1937	10,746,334	345,299,265	1974	7,536,953	779,041,906
	10,952,806	356,252,071	1975	10,935,471	789,977,377
1939	11,966,581	368,218,652			
1940	13,053,403	381,272,055	1976	4,957,616	794,391,507
			1977	8,525,965	802,917,472

### APPENDIX III

## PRELIMINARY PROVEN AND REMAINING OIL AND GAS RESERVES

COUNTY	FIELD OR POOL	DISCOVERY DATE	PRODUCING FORMATIONS	RESERVOIR & TRAPPING MECHANISMS	DEPTH	ACTI GAS
ESSEX	Colchester	1959	Trenton- Black River	Dolomitized zone in faulted syncline	2090-2225	
	Malden	1961	Trenton	Dolomitized zone in faulted syncline	2400	
	Ruscom River	1970	Trenton	Dolomitized zone in faulted syncline		
GREY	Egremont	1966	Black River	Dolomitized zone in basal limestone	2180-2200	
HALTON	Acton	1954	Black River	Dolomitized zone in anticline	1740-1925	
	Hornby	1959	Black River	Dolomitized zone in anticline	1530-1615	
KENT	Dover	1917	Trenton- Black River	Dolomitized zone in faulted syncline	3000	3
	Kingsville	1975	Trenton- Black River	Dolomitized zone in anticline	2400-2425	
WELLINGTON	Arthur	1968	Black River	Dolomitized zone in basal limestone	2210-2370	2

COUNTY	FIELD OR POOL	DISCOVERY DATE	PRODUCING FORMATIONS	RESERVOIR & TRAPPING MECHANISMS	DEPTH	ACTIV GAS	E WELLS OILS	1977 PRODUCTION	CUMULATIVE PRODUCTION DEC. 31, 1977	PROVEN RECOVER- ABLE RESERVES (PRIMARY)	PROVEN RESERVES (SECONDARY)	REMAINING RE- COVERABLE RE- SERVES, PROVEN
ELGIN	Willey	1964	Cambrian	Sandy dolomite in fault trap	3540-3615		12	nil 71,332 bbls	805 MMcf 1,292,245 bbls	1,000 MMcf 1,016,950 bbls	250 MMcf 1,412,800 bbls	545 MMcf 1,137,505 bbls
KENT	Clearville	1962	Cambrian	Sandy dolomite in titled fault block	3955		7	24,414 bbls	1,207,630 bbls	912,000 bbls	500,000 bbls	204,370 bbls
MIDDLESEX	Ekfrid	1973	Cambrian	Sandy dolomite in stratigraphic trap	3560-3571	1	1	11,000 MMcf 6,193 bbls	21,802 bbls	250 MMcf 100,000 bbls		250 MMcf 78,198 bbls
OXFORD	Gobles	1959	Cambrian	Dolomite sandstone in straitigraphic trap	2925-2975		36	nil 31, 397 bbls	895 MMcf 1,384,707 bbls	930 MMcf 1,070,000 bbls	3,059,000 bbls	35 MMcf 2,744,293 bbls
	Innerkip	1961	Cambrian	Dolomite sandstone in stratigraphic trap	2895-2920	8	3	164 MMcf 785 bbls	953 MMcf 17,026 bbls	1,010 MMcf 20,000 bbls		57 MMcf 2,974 bbls
	Innerkip East	1068	Cambrian	Dolomite sandstone in stratigraphic trap	2850-2885			nil	83 MMcf	107 MMcf		24 MMcf
WENTWORTH	Rockton	1960	Cambrian	Sandstone in stratigraphic trap	2360					nil	Unknown	Unknown

## APPENDIX III

# PRELIMINARY PROVEN AND REMAINING OIL AND GAS RESERVES

#### ORDOVICIAN

COUNTY	FIELD OR POOL	DISCOVERY DATE	PRODUCING FORMATIONS	RESERVOIR & TRAPPING MECHANISMS	DEPTH	ACTIVE GAS	WELLS OILS	1977 PRODUCTION	CUMULATIVE PRODUCTION DEC. 31, 1977	PROVEN RECOVER- ABLE RESERVES (PRIMARY)	PROVEN RESERVES (SECONDARY)	REMAINING RE- COVERABLE RE- SERVES, (PROVEN)
ESSEX	Colchester	1959	Trenton- Black River	Dolomitized zone in faulted syncline	2090-2225		5	6,224 bbls	634,756 bbls	650,000 bbls		15,244 bbls
	Malden	1961	Trenton	Dolomitized zone in faulted syncline	2400		4	2,286 bbls	128,378 bbls	140,000 bbls		11,622 bbls
	Ruscom River	1970	Trenton	Dolomitized zone in faulted syncline			1	534 bbls	3,806 bbls	Unknown		Unknown
GREY	Egremont	1966	Black River	Dolomitized zone in basal limestone	2180-2200				nil	Unknown		Unknown
HALTON	Acton	1954	Black River	Dolomitized zone in anticline	1740-1925			nil	495 MMcf	605 MMcf		110 MMcf
	Hornby	1959	Black River	Dolomitized zone in anticline	1530-1615			nil	38 MMcf	79 MMcf		41 MMcf
KENT	Dover	1917	Trenton- Black River	Dolomitized zone in faulted syncline	3000	3	1	67 MMcf 406 bbls	12,508 MMcf 250,050 bbls	25,000 MMcf 50,000 bbls		12,492 MMcf 249,950 bbls
	Kingsville	1975	Trenton- Black River	Dolomitized zone in anticline	2400-2425		3	7,324 bbls	11,422 bbls	Unknown		Unknown
WELLINGTON	Arthur	1968	Black River	Dolomitized zone in basal limestone	2210-2370	2		38 MMcf	419 MMcf	500 MMcf		81 MMcf

### **ORDOVICIAN**

E WELLS OILS	1977 PRODUCTION	CUMULATIVE PRODUCTION DEC. 31, 1977	PROVEN RECOVER- ABLE RESERVES (PRIMARY)	PROVEN RESERVES (SECONDARY)	REMAINING RE- COVERABLE RE- SERVES, (PROVEN)
5	6,224 bbls	634,756 bbls	650,000 bbls		15,244 bbls
4	2,286 bbls	128,378 bbls	140,000 bbls		11,622 bbls
1	534 bbls	3,806 bbls	Unknown		Unknown
		nil	Unknown		Unknown
	nil	495 MMcf	605 MMcf		110 MMcf
	nil	38 MMcf	79 MMcf		41 MMcf
1	67 MMcf 406 bbls	12,508 MMcf 250,050 bbls	25,000 MMcf 50,000 bbls		12,492 MMcf 249,950 bbls
3	7,324 bbls	11,422 bbls	Unknown	·	Unknown
	38 MMcf	419 MMcf	500 MMcf		81 MMcf

CC	COUNTY	FIELD OR D	DISCOVERY DATE	PRODUCING FORMATIONS	RESERVOIR & TRAPPING MECHANISMS	DEPTH	ACTIV GAS
BR. HA	ESSEX	Essex (Offshore)	1957	Salina A-1 Guelph	Dolomitized bioherm patch reef (?)	850-975	
LIN WE		Leamington Mersea	1889	Salina A-1	Dolomitized bioherm patch reef	920-1040	
		Oxley	1964	Salina A-1	Dolomitized erosional monadnock on Guelph surface	890-930	
EI	HURON	Bayfield	1956	Guelph	Dolomitized pinnacle reef	1520-1905	
		Dungannon	1967	Guelph	Dolomotized pinnacle reef	1540-1795	
		Grand Bend	1955	Guelph	Dolomitized pinnacle reef	1765-1860	
		Zurich	1954	Guelph	Dolomitized pinnacle reef	1795-1950	
	KENT	Botany	1958	Salina A-1	Dolomitized stromatolitic (?) mound	1680-1955	2
		Chatham Dresden Camden Gore	1936	Salina A-2 Salina A-2 Guelph	Dolomitized zones in A-2, A-1 in anticline Guelph bioherm patch reef	1425-1625	30
		D'Clute	1929	Salina A-2	Dolomitized bioherm patch reef	1215-1580	1
		D'Clute (Offshore)	1957	Salina A-2 Salina A-1	Extension of above		11

## SILURIAN

COUNTY	FIELD OR D POOL	ISCOVERY DATE	PRODUCING FORMATIONS	RESERVOIR & TRAPPING MECHANISMS	DEPTH	ACTIVE WELLS GAS OILS	1977 PRODUCTION	CUMULATIVE PRODUCTION DEC. 31, 1977	PROVEN RECOVER- ABLE RESERVES (PRIMARY)	PROVEN RESERVES (SECONDARY)	REMAINING RE- COVERABLE RE- SERVES PROVEN
BRANT HALDIMAND LINCOLN WENTWORTH	Brant Haldimand Lincoln Wentworth	1891	Irondequoit Thorold Grimsby Whirlpool	Porosity and perme- ability pinchout in dolomite and sand- stone	500-900	315	98 MMcf	109,028 MMcf 41,400 bbls	114,000 MMcf 41,400 bbls		4,972 MMcf nil
	Haldimand (Offshore)	1957	Irondequoit Thorold Grimsby Whirlpool	Porosity and perme- ability pinchout in dolomite and sand- stone	900-1450	93	1,060 MMcf	15,504 MMcf 16,564 bbls	40,000 MMcf		23,436 MMcf
ELGIN	Bayham (Eden (Fairground (Griffin (Richmond (Vienna	1910	Irondequoit Thorold Grimsby	Porosity and perme- ability pinchout in dolomite and sand- stone	1180-1430		nil	5,773 MMcf	5,773 MMcf		27 MMcf
	Cowal	1950	Salina A-2 Salina A-1 Guelph	Dolomitized bioherm patch reef	1150-1250	3	15 MMcf	406 MMcf	450 MMcf		44 MMcf
	Elgin (Offshore)	1967	Guelph Thorold Grimsby	Dolomitized bioherm patch reef (?); porosity and permeability pinchout in sandstone	1200-1830	29	1,800 MMcf	8,659 MMcf	34,000 MMcf		25,341 MMcf
	Mosald (Part of this field is Middlesex)	1930	Salina A-2 Salina A-2 Grimsby	Dolomitized zones in anticline: porosity and pinchout in sandstone	1320-1490	10	87 MMcf	6,304 MMcf 22,904 bbls	20,000 MMcf 46,445 bbls		13,696 MMcf 23,541 bbls
	Townline	1948	Salina A-2 Salina A-1	Dolomitized zone in anticline	1320-1445		nil	2,815 MMcf	2,954 MMcf		139 MMcf

COUNTY	FIELD OR POOL	DISCOVERY DATE	PRODUCING FORMATIONS	RESERVOIR & TRAPPING MECHANISMS	DEPTH	ACTIVE GAS	WELLS OILS	1977 PRODUCTION	CUMULATIVE PRODUCTION DEC. 31, 1977	PROVEN RECOVER- ABLE RESERVES (PRIMARY)	PROVEN RESERVES (SECONDARY)	REMAINING RE- COVERABLE RE- SERVES PROVEN
ESSEX	Essex (Offshore)	1957	Salina A-1 Guelph	Dolomitized bioherm patch reef (?)	850-975				2,592 MMcf	3,100 MMcf		508 MMcf
	Leamington Mersea	1889	Salina A-1	Dolomitized bioherm patch reef	920-1040			nil	23,657 MMcf 235,342 bbls	23,700 MMcf 235,342 bbls		43 MMcf nil
	Oxley	1964	Salina A-1	Dolomitized erosional monadnock on Guelph surface	890-930			nil	63 MMcf	90 MMcf		27 MMcf
HURON	Bayfield	1956	Guelph	Dolomitized pinnacle reef	1520-1905			nil	2,121 MMcf	2,240 MMcf		119 MMcf
	Dungannon	1967	Guelph	Dolomotized pinnacle reef	1540-1795			nil	nil	1,700 MMcf		1,700 MMcf
	Grand Bend	1955	Guelph	Dolomitized pinnacle reef	1765-1860		4	15,739 bbls	451,923 bbls	550,000 bbls		98,077 bbls
	Zurich	1954	Guelph	Dolomitized pinnacle reef	1795-1950			nil	nil	1,000 MMcf (est)		1,000 MMcf
KENT	Botany	1958	Salina A-1	Dolomitized stromatolitic (?) mound	1680-1955	2		15 MMcf	392 MMcf (est)	450 MMcf (est)		58 MMcf (est)
	Chatham Dresden Camden Gor	1936 e	Salina A-2 Salina A-2 Guelph	Dolomitized zones in A-2, A-1 in anticline Guelph bioherm patch reef	1425-1625	30	2	117 MMcf 4,997 bbls	9,193 MMcf 100,087 bbls	9,500 MMcf Unknown		77 MMcf Unknown
	D'Clute	1929	Salina A-2	Dolomitized bioherm patch reef	1215-1580	1		7 MMcf	19,746 MMcf 3,146 bbls	19,800 MMcf 3,146 bbls		54 MMcf nil
	D'Clute (Offshore)	1957	Salina A-2 Salina A-1	Extension of above		11		110 MMcf	7,645 MMcf	10,000 MMcf		2,355 MMcf

E WELLS OILS	1977 PRODUCTION	CUMULATIVE PRODUCTION DEC. 31, 1977	PROVEN RECOVER- ABLE RESERVES (PRIMARY)	PROVEN RESERVES (SECONDARY)	REMAINING RE- COVERABLE RE- SERVES PROVEN
		2,592 MMcf	3,100 MMcf		508 MMcf
	nil	23,657 MMcf 235,342 bbls	23,700 MMcf 235,342 bbls		43 MMcf nil
	nil	63 MMcf	90 MMcf		27 MMcf
	nil	2,121 MMcf	2,240 MMcf		119 MMcf
	nil	nil	1,700 MMcf		1,700 MMcf
4	15,739 bbls	451,923 bbls	550,000 bbls		98,077 bbls
	nil	nil	1,000 MMcf (est)		1,000 MMcf
	15 MMcf	392 MMcf (est)	450 MMcf (est)		58 MMcf (est)
2	117 MMcf 4,997 bbls	9,193 MMcf 100,087 bbls	9,500 MMcf Unknown		77 MMcf Unknown
	7 MMcf	19,746 MMcf 3,146 bbls	19,800 MMcf 3,146 bbls		54 MMcf nil
	110 MMcf	7,645 MMcf	10,000 MMcf		2,355 MMcf

COUNTY	FIELD OR DI POOL	SCOVERY DATE	PRODUCING FORMATIONS	RESERVOIR & TRAPPING MECHANISMS	DEPTH	ACTIVE GAS
LAMBTON (con't)	Brooke	1965	Guelph	Dolomitized incipient bioherm reef (?)	1695	
	Charlemont	1954	Salina A-2	Dolomitized zone in anticline dome	1615-1655	
	Corunna (Storage Pool)	1950	Salina A-1 Guelph	Dolomitized pinnacle reef	2150-2450	1
	Courtwright	1966	Guelph	Dolomitized incipient bioherm reef (?)	2400-2430	
	Coveny 1971		Guelph	Dolomitized incipient bioherm reef	1938-2054	
	Cromar 1969		Guelph	Dolomitized incipient bioherm reef	2100	1
	Dawn (Miscel- laneous)	1921	Salina A-2 Salina A-1 Guelph	Dolomitized zones in pinnacle reef and flanking beds	1530-1955	10
	Dawn No. 1 (No. 3 storage pool)	1914	Salina A-2 Salina A-1	Dolomitized zones in draping over guelph incipient bioherm reefs	1575	7
	Dawn 4-28-111	1967	Guelph	Dolomitized incipient bioherm reef	1885-1946	
	Dawn 156 1952 Storage Pool		Salina A-2 Salina A-1	Dolomitized pinnacle reef	1620-2005	
	Dawn 167	1952	Salina A-2 Salina A-1 Guelph	Dolomitized pinnacle reef	1500-1765	1

COUNTY	FIELD OR POOL	DISCOVERY DATE	PRODUCING FORMATIONS	RESERVOIR & TRAPPING MECHANISMS	DEPTH	ACTIVE GAS	WELLS OILS	1977 PRODUCTION	CUMULATIVE PRODUCTION DEC. 31, 1977	PROVEN RECOVER- ABLE RESERVES (PRIMARY)	PROVEN RESERVES (SECONDARY)	REMAINING RE- COVERABLE RE- SERVES PROVEN
KENT (cont'd)	Morpeth	1954	Salina A-2	Dolomitized stromatolitic (?) mound	1625-1655	8		28 MMcf	4,563 MMcf	4,600 MMcf		37 MMcf
	St. Patricks	1970	Guelph	Dolomitized bioherm patch reef	1472			nil	nil	Unknown		Unknown
	Tilbury	1906	Salina A-2 Salina A-2 Guelph	Dolomitized bioherm reef	1170-1400	52		269 MMcf	209,099 MMcf 3,132 bbls	220,000 MMcf 3,132 bbls		10,901 MMcf nil
	Tilbury (Offshore)	1943	Salina A-2 Salina A-1 Guelph	Extension of above		77		752 MMcf	7,509 MMcf	64,000 MMcf		6,494 MMcf
	Wolfe	1952	Salina A-2	Dolomitized stromatilitic (?) mound	1535-1550	1		7 MMcf	204 MMcf	210 MMcf		6 MMcf
	Zone	1943	Salina A-2 Salina A-1	Dolomitized zone in anticline dome	1400-1600	36		60 MMcf	8,864 MMcf	10,000 MMcf		1,136 MMcf
LAMBTON	Avonry	1963	Guelph	Dolomitized incipient bioherm patch reef	2165-2200			nil	378 MMcf	400 MMcf		22 MMcf
	Becher East	1946	Guelph	Dolomitized zone in bioherm patch reef	1910-1930			nil	1,083 MMcf	1,100 MMcf		17 MMcf
	Becher West	1946	Salina A-1	Dolomitized zones in anticline	1825-1990	29	21	77 MMcf 46,335 bbls	5,320 MMcf 2,075,696 bbls	6,500 MMcf 840,000 bbls	1,800,000 bbls	1,180 MMcf 564,304 bbls
	Brigden	1963	Salina A-1	Dolomitized zone along fault	2080-2250	2	2	68 MMcf 2,333 bbls	2,189 MMcf 53,416 bbls	2,800 MMcf 66,300 bbls		611 MMcf 8,452 bbls

COUNTY	FIELD OR DI	SCOVERY DATE	PRODUCING FORMATIONS	RESERVOIR & TRAPPING MECHANISMS	DEPTH	ACTIVE GAS	WELLS	1977 PRODUCTION	CUMULATIVE PRODUCTION DEC. 31, 1977	PROVEN RECOVER- ABLE RESERVES (PRIMARY)	PROVEN RESERVES (SECONDARY)	REMAINING RE- COVERABLE RE- SERVES PROVEN
LAMBTON (con't)	Brooke	1965	Guelph	Dolomitized incipient bioherm reef (?)	1695		4	21,796 bbls	164,354 bbls	250,000 bbls		228,204 bbls
	Charlemont	1954	Salina A-2	Dolomitized zone in anticline dome	1615-1655			nil	328 MMcf	350 MMcf		22 MMcf
	Corunna (Storage Pool)	1950	Salina A-1 Guelph	Dolomitized pinnacle reef	2150-2450	1	10	2 MMcf 18,141 bbls	4,386 MMcf 1,334,786 bbls	4,400 MMcf 1,400,000 bbls		14 MMcf 45,318 bbls
	Courtwright	1966	Guelph	Dolomitized incipient bioherm reef (?)	2400-2430			nil	627 MMcf	853 MMcf		226 MMcf
	Coveny	1971	Guelph	Dolomitized incipient bioherm reef	1938-2054			nil		2,200 MMcf		2,200 MMcf
	Cromar	1969	Guelph	Dolomitized incipient bioherm reef	2100	1	1	37 MMcf 3,673 bbls	340 MMcf 17,137 bbls	Unknown		Unknown
	Dawn (Miscel- laneous)	1921	Salina A-2 Salina A-1 Guelph	Dolomitized zones in pinnacle reef and flanking beds	1530-1955	10	10	84 MMcf 7,493 bbls	4,940 MMcf 256,875 bbls	5,000 MMcf 280,000 bbls		60 MMcf 23,125 bbls
	Dawn No. 1 (No. 3 storage pool)	1914	Salina A-2 Salina A-1	Dolomitized zones in draping over guelph incipient bioherm reefs	1575	7		24 MMcf		1,000 MMcf		36 MMcf
	Dawn 4-28-111	1967	Guelph	Dolomitized incipient bioherm reef	1885-1946			nil		290 MMcf		290 MMcf
	Dawn 156 Storage Pool	1952	Salina A-2 Salina A-1	Dolomitized pinnacle reef	1620-2005		1	3,851 bbls	21,202 MMcf 232,986 bbls	21,202 MMcf 240,000 bbls		nil 7,014 bbls
	Dawn 167	1952	Salina A-2 Salina A-1 Guelph	Dolomitized pinnacle reef	1500-1765	1		nil	4,985 MMcf	6,600 MMcf		1,615 MMcf

VELLS OILS	1977 PRODUCTION	CUMULATIVE PRODUCTION DEC. 31, 1977	PROVEN RECOVER- ABLE RESERVES (PRIMARY)	PROVEN RESERVES (SECONDARY)	REMAINING RE- COVERABLE RE- SERVES PROVEN
4	21,796 bbls	164,354 bbls	250,000 bbls		228,204 bbls
	nil	328 MMcf	350 MMcf		22 MMcf
10	2 MMcf 18,141 bbls	4,386 MMcf 1,334,786 bbls	4,400 MMcf 1,400,000 bbls		14 MMcf 45,318 bbls
	nil	627 MMcf	853 MMcf		226 MMcf
	nil		2,200 MMcf		2,200 MMcf
1	37 MMcf 3,673 bbls	340 MMcf 17,137 bbls	Unknown		Unknown
10	84 MMcf 7,493 bbls	4,940 MMcf 256,875 bbls	5,000 MMcf 280,000 bbls		60 MMcf 23,125 bbls
	24 MMcf		1,000 MMcf		36 MMcf
	nil		290 MMcf		290 MMcf
1	3,851 bbls	21,202 MMcf 232,986 bbls	21,202 MMcf 240,000 bbls		nil 7,014 bbls
	nil	4,985 MMcf	6,600 MMcf		1,615 MMcf

C(	COUNTY	FIELD OR I	DISCOVERY DATE	PRODUCING FORMATIONS	RESERVOIR & TRAPPING MECHANISMS	DEPTH	ACTIV GAS
L <sub>I</sub> (c	LAMBTON (cont'd)	Rosedale (Storage Pool)	1970	Guelph	Dolomitized pinnacle reef	1650-1950	3
		Seckerton Seckerton North (Storage Pool)	1952	Salina A-1 Guelph	Dolomitized pinnacle reef	2100-2360	
		Shetland	1914	Salina A-1 Guelph	Dolomitized incipient bioherm reef	1560-1675	
		Sombra (Storage Pool)	1951	Guelph	Dolomitized pinnacle reef	1815-2060	
1		Sombra 6-28-1X	1973	Salina A-1 Guelph	Dolomitized incipient bioherm reef	1931-1936	
		Sombra (Misc.)	1921	Guelph	Dolomitized pinnacle reef	1950-1955	
		Sutorville	1963	Guelph	Dolomitized incipient bioherm reef	1970-2060	
		Talford	1959	Guelph	Dolomitized bioherm reef	2545-2585	
		Wanstead	1958	Guelph	Dolomitized pinnacle reef	1980-2025	
		Warwick	1953	Guelph	Dolomitized pinnacle reef	1765-1880	

COUNTY	FIELD OR DI	SCOVERY DATE	PRODUCING FORMATIONS	RESERVOIR & TRAPPING MECHANISMS	DEPTH	ACTIVE WELLS GAS OILS	1977 PRODUCTION	CUMULATIVE PRODUCTION DEC. 31, 1977	PROVEN RECOVER- ABLE RESERVES (PRIMARY)	PROVEN RESERVES (SECONDARY)	REMAINING RE- COVERABLE RE- SERVES PROVEN
LAMBTON (cont'd)	Dawn-Sombra	1977	Guelph	Dolomitized pinnacle reef	1950-1955	4	608 bbls	608 bbls	Unknown		Unknown
	Edys Mills	1977	Guelph	Dolomitized pinnacle reef	1950-1955	1	112 bbls	112 bbls	Unknown		Unknown
	Enniskillen 26	1952	Guelph	Dolomitized zone along fault (?)	2120-2130	1	8 MMcf	57 MMcf	57 MMcf		211 MMcf
-	Enniskillen 28	1954	Guelph	Dolomitized pinnacle reef	1850-2035		nil	1,945 MMcf	2,450 MMcf		505 MMcf
	Enniskillen 30	1977	Guelph	Dolomitized pinnacle reef	1950-1955	1	7,341 bbls	7,341 bbls	Unknown		Unknown
	Ladysmith	1970	Guelph	Dolomitized pinnacle reef	1470-1639	3	24,308 bbls	379,816 bbls	2,500 MMcf 500,000 bbls		2,500 MMcf 120,184 bbls
	Mandamin	1956	Guelph	Dolomitized pinnacle reef	2170-2235	1	nil	1,908 MMcf	2,000 MMcf		92 MMcf
-	Oil Springs East	1913	Guelph	Dolomitized incipient bioherm reef	1850-1950	297 1	655 MMcf 719 bbls	Unknown	Unknown		Unknown
	Osborne	1976	Guelph	Dolomitized pinnacle reef	1950-1955	1	5,697 bbls	5,697 bbls	Unknown		Unknown
	Otter Creek	1968	Salina A-1 Guelph	Dolomitized incipient bioherm reef	1815-2080	7	85 MMcf	1,728 MMcf	2,000 MMcf		272 MMcf
	Petrolia East	1972	Guelph	Dolomitized pinnacle reef	1902-2052	6	22,221 bbls	130,852 bbls	44 MMcf 800,000 bbls	1,200,000 bbls	44 MMcf 1,869,148 bbls

COUNTY	FIELD OR POOL	DISCOVERY DATE	PRODUCING FORMATIONS	RESERVOIR & TRAPPING MECHANISMS	DEPTH	ACTIVE WELLS GAS OILS	1977 PRODUCTION	CUMULATIVE PRODUCTION DEC. 31, 1977	PROVEN RECOVER- ABLE RESERVES (PRIMARY)	PROVEN RESERVES (SECONDARY)	REMAINING RE- COVERABLE RE- SERVES PROVEN
LAMBTON (cont'd)	Rosedale (Storage Pool)	1970	Guelph	Dolomitized pinnacle reef	1650-1950	3	nil	2,826 MMcf	3,488 MMcf		662 MMcf
	Seckerton Seckerton North (Storage Pool)	1952	Salina A-1 Guelph	Dolomitized pinnacle reef	2100-2360	9	25,332 bbls	1,231,866 bbls 8,437 MMcf	1,500,000 bbls 8,437 MMcf		268,134 bbls nil
	Shetland	1914	Salina A-1 Guelph	Dolomitized incipient bioherm reef	1560-1675	1	29 bbls	2,248 bbls	2,500 bbls		252 bbls
	Sombra (Storage Pool)	1951	Guelph	Dolomitized pinnacle reef	1815-2060		nil	1,927 MMcf 30 bbls	1,927 MMcf 1,836 bbls		nil 106 bbls
	Sombra 6-28-1X	1973	Salina A-1 Guelph	Dolomitized incipient bioherm reef	1931-1936	1	105 bbls	1,136 bbls	10,000 bbls		8,864 bbls
	Sombra (Misc.)	1921	Guelph	Dolomitized pinnacle reef	1950-1955	1	90 bbls	Unknown	Unknown		Unknown
	Sutorville	1963	Guelph	Dolomitized incipient bioherm reef	1970-2060	1	1,459 bbls	55,855 bbls	65,000 bbls		9,145 bbls
	Talford	1959	Guelph	Dolomitized bioherm reef	2545-2585		nil	14,638 bbls	20,000 bbls		5,362 bbls
	Wanstead	1958	Guelph	Dolomitized pinnacle reef	1980-2025	3	4,423 bbls	467,501 bbls	500,000 bbls		23,653 bbls
	Warwick	1953	Guelph	Dolomitized pinnacle reef	1765-1880	2	8,987 bbls	80,113 bbls	650,000 bbls		7,945 bbls

WELLS OILS	1977 PRODUCTION	CUMULATIVE PRODUCTION DEC. 31, 1977	PROVEN RECOVER- ABLE RESERVES (PRIMARY)	PROVEN RESERVES (SECONDARY)	REMAINING RE- COVERABLE RE- SERVES PROVEN
	nil	2,826 MMcf	3,488 MMcf		662 MMcf
9	25,332 bbls	1,231,866 bbls 8,437 MMcf	1,500,000 bbls 8,437 MMcf		268,134 bbls nil
1	29 bbls	2,248 bbls	2,500 bbls		252 bbls
	nil	1,927 MMcf 30 bbls	1,927 MMcf 1,836 bbls		nil 106 bbls
1	105 bbls	1,136 bbls	10,000 bbls		8,864 bbls
1	90 bbls	Unknown	Unknown		Unknown
1	1,459 bbls	55,855 bbls	65,000 bbls		9,145 bbls
	nil	14,638 bbls	20,000 bbls		5,362 bbls
3	4,423 bbls	467,501 bbls	500,000 bbls		23,653 bbls
2	8,987 bbls	80,113 bbls	650,000 bbls	140	7,945 bbls

COUNTY	FIELD OR I	DISCOVERY DATE	PRODUCING FORMATIONS	RESERVOIR & TRAPPING MECHANISMS	DEPTH	
ELGIN	Rodney	1949	Lucas	Dolomitized zone in dome	350	
	Wallacetown (formerly called "Dutton")	1898	Dundee-Lucas	Dolomitized zone in dome	400	
KENT	Bothwell- Thamesville	1862	Dundee-Lucas	Dolomitized zone in anticline and domes	300-400	
LAMBTON	Oil Springs	1858	Dundee	Dolomitized zone in dome	350-400	
	Petrolia	1862	Dundee-Lucas	Dolomitized zone in dome	400-500	
	Watford- Kerwood	1938	Dundee-Lucas	Dolomitized zone in dome	360-445	
	Wilson Croft	1927	Dundee	Dolomitized zone in anticline	400	
MIDDLESEX	Glencoe	1917	Dundee-Lucas	Dolomitized zone in dome	275-400	

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COUNTY	FIELD OR D	ISCOVERY DATE	PRODUCING FORMATIONS	RESERVOIR & TRAPPING MECHANISMS	DEPTH	ACTIVE WELLS GAS OILS	1977 PRODUCTION	CUMULATIVE PRODUCTION DEC. 31, 1977	PROVEN RECOVER- ABLE RESERVES (PRIMARY)	PROVEN RESERVES (SECONDARY)	REMAINING RE- COVERABLE RE- SERVES PROVEN
ELGIN	Rodney	1949	Lucas	Dolomitized zone in dome	350	131	185,548 bbls	1,154,249 bbls	3,900,000 bbls	4,735,000 bbls	585,329 bbls
	Wallacetown (formerly called "Dutton")	1898	Dundee-Lucas	Dolomitized zone in dome	400	16	814 bbls	243,608 bbls	250,000 bbls		6,392 bbls
KENT	Bothwell- Thamesville	1862	Dundee-Lucas	Dolomitized zone in anticline and domes	300-400	32	9,379 bbls	3,127,510 bbls	3,500,000 bbls		372,490 bbls
LAMBTON	Oil Springs	1858	Dundee	Dolomitized zone in dome	350-400	263	24,324 bbls	9,185,802 bbls	9,300,000 bbls		18,389,110 bbls
	Petrolia	1862	Dundee-Lucas	Dolomitized zone in dome	400-500	50	20,627 bbls	17,112,885 bbls	17,200,000 bbls		87,132 bbls
	Watford- Kerwood	1938	Dundee-Lucas	Dolomitized zone in dome	360-445		nil	129,670 bbls	129,670 bbls		nil
	Wilson Croft	1927	Dundee	Dolomitized zone in anticline	400	2	149 bbls	Unknown	Unknown		Unknown
MIDDLESEX	Glencoe	1917	Dundee-Lucas	Dolomitized zone in dome	275-400		nil	1,092,111 bbls	700,000 bbls	725,000 bbls	332,889 bbls



## **DEVONIAN**

CTIVE WELLS GAS OILS	1977 PRODUCTION	CUMULATIVE PRODUCTION DEC. 31, 1977	PROVEN RECOVER- ABLE RESERVES (PRIMARY)	PROVEN RESERVES (SECONDARY)	REMAINING RE- COVERABLE RE- SERVES PROVEN
131	185,548 bbls	1,154,249 bbls	3,900,000 bbls	4,735,000 bbls	585,329 bbls
16	814 bbls	243,608 bbls	250,000 bbls		6,392 bbls
32	9,379 bbls	3,127,510 bbls	3,500,000 bbls		372,490 bbls
263	24,324 bbls	9,185,802 bbls	9,300,000 bbls		18,389,110 bbls
50	20,627 bbls	17,112,885 bbls	17,200,000 bbls		87,132 bbls
	nil	129,670 bbls	129,670 bbls		nil
2	149 bbls	Unknown	Unknown		Unknown
	nil	1,092,111 bbls	700,000 bbls	725,000 bbls	332,889 bbls

# APPENDIX IV AVAILABLE COMPUTER REPORTS

### Well File Report Writing Programs

Report 2.1 Summary of Well Completions

This report generates Table 4 for any given year.

### Report 2.2A Exploratory Wells Drilled

This report retrieves all of the exploratory wells drilled in a given year and, alphabetically by well name, lists: well name, latitude, longitude, sequence number, county, township, lot, concession, classification, final status, the flow and formation at which gas and/or oil were found and the water type and its formation.

Report 2.4 Drilling Summary by Depth

This report generates Table 7 for any given year.

Report 2.5 Drilling Success Ratio

This report generates Table 8 for any given year.

Report 2.6 Lake Erie Drilling

This report generates Table 9 for any given year.

Report 2.20 Alphabetic Index of Wells

This report generates Table 26 for any given year.

Report 2.21 Permit Index of Wells

This report generates Table 27 for any given year.

# Report 2.24 Summary of Casing Records

This report retrieves all wells that have a casing record, sorts them into county, township and concession order and prints out for each well the well name, county, township, lot, concession, co-ordinates, casing record (size, weight, setting and number of feet recovered).

# Report 2.25A Ontario Well Sample Index

This report retrieves all of the wells that have drill cutting samples stored at the Section's laboratory in London. The report sorts the wells into county, township, lot, concession order, and reports this information, together with the latitude, longitude, sequence number, co-ordinates, ground elevation, total depth, year completed, age of oldest rock penetrated, sample interval, number of bottles and the sample repository tray number.

### Report 2.25B Ontario Well Core Index

This report retrieves all wells that have been cored, sorts them into county, township, lot, concession order and reports this information with the well name, co-ordinates, ground elevation, total depth, year completed, core condition (which indicates the type of core available, i.e. chips, full width slab, etc.), geological formation of the core and the core rack number.

### Report 2.37 Well Summary Card

This report generates the well cards given at the back of this book.

### Report 3.0 Well Scan

This report sorts the well records retrieved into county, township, lot, concession, tract order and prints this information out along with the well name, co-ordinates, permit number, latitude, longitude, sequence number, completion date, abandonment date, total depth, and operator.

### Report 3.1 Hydraulic Pressure Gradient

Using the initial gas record, this report calculates the static hydraulic pressure gradient for each well record retrieved over a specified area and within specified producing formations. The pressure gradient is further averaged by county and by township.

### Report 3.2 Downhole Logs

This report lists, in county, township, tract, lot, concession order the well name, all location information, completion date, status, T.D. and complete logging record for all records retrieved.

### Field and Production File Report Writing Programs

# Report 2.7 Ontario Oil Production by Field

This report generates Table 10 for any given year, but does not list active wells.

### Report 2.8 Natural Gas Production by Field

This report generates Table 11 for any given year, but does not list active/suspended wells.

### Report 2.9 Oil Production by Age

This report generates Table 12 for any given 5 year range.

# Report 2.10 Oil Production by County

This report generates Table 13 for any given year.

Report 2.11 Oil Production in Ontario

This report generates Table 14 for any given 5 year range.

- Report 2.12 Gas Production by County

  This report generates Table 16 for any given year.
- Report 2.13 Lake Erie Gas Production

  This report generates Table 17 for any given year, but does not list active/suspended wells.
- Report 2.15 Gas Production in Ontario

  This report generates Table 18 for any given 5 year range.
- Report 2.16 Gas Storage Southwestern Ontario

  This report retrieves all storage field records and reports for each storage field, its producing formation, operator, working reservoir capacity in Mcf and the original reservoir pressure.
- Report 2.26 Monthly Crude Oil Production by Field

  This report retrieves all units that show monthly oil production in a given month and year or in the preceding year and reports the following information for each unit in order of county and field: county, field, unit number, the given month's production, the percentage of the total provincial production with its percentage of the total provincial production for the year and previous year and the change in percentage, next month's estimated production and an estimate on the year end's production.
- Report 2.27 Monthly Natural Gas Production by Field

  This report is identical to Report 2.26 except that gas production figures are noted.
- Report 2.28 Lake Erie Monthly Natural Gas Production by Field

  This report is the same as Report 2.27 but applies to Lake Erie gas production only.

#### APPENDIX V

#### LIST OF PUBLICATIONS AND MAPS

NOTE: The following publications and maps may be obtained by writing to: Ministry of Natural Resources, Mines Publications Unit, Whitney Block, Queen's Park, Toronto M7A 1W3 (416-965-6511).

Cheques or Money Orders should be made payable to the Treasurer of Ontario.

Please note that payments must be included with requests for orders totalling less than \$100.00.

Annual Report 1920-1953	Price \$1.00 each
*(1922, 1927, 1934, 1943 out of print Annual Report 1954-1959 (Ontario Fuel Board) Annual Report 1960-1065,1967, 1968, 1969, 1979 Annual Report 1971, 1972, 1973, 1974 Annual Report 1976, 1976, 1977	1.00 each 5.00 each
Paper 67-2; A Guide to the Subsurface Palaeozoic	
Stratigraphy of Southern Ontario by R.J. Beards	. 2.00
in Ontario by D.D. McLean	
Paper 70-2; Gas Analyses Ontario Gas Wells Paper 70-4; Supplement to Catalogue of Ontario	. 1.00
Well Samples at the Geological Survey of Canada	. 1.00
Paper 71-2; Structural Geology of Southwestern Ontario and Southeastern Michigan by: Robert J. Brigham	. 2.00
Paper 73-2; The Oil and Gas Potential of the "Clinton-Cataract" Reservoirs of Norfolk County by: T.A. MacDougall	5.00
Report of the Committee on Oil and Gas Resources	. 5.00
Part I (Offshore Activity-1961) Part II (Underground Storage of Natural Gas - 1962)	. 2.00
Index of Ordovician and Cambrian Wells Drilled in Southwestern Ontario Prior to 1963 by: D.A. Sharp.	2.00
Yesterday, Today, Tomorrow-Oil and Gas in Ontario.	
Paper 11-1 (a); Background paper on Ontario Petroleum Resources	5.00
Offshore Exploration in Great Lakes Region by: Bryson C. Donnan (1961)	25

<sup>\*</sup>OUT OF PRINT-ORIGINALS ON FILE WITH PETROLEUM RESOURCES SECTION

Minutes and Seconds Expressed as Decimal Parts of	
a Degree MP/3	no charge
Petroleum Possibilities of the James Bay Lowland	
Area-Vol. 61 Part 6 (maps included) (1952)	1.50
Industrial Mineral Report No. 6; Salt in Ontario by:	
D.F. Hewitt (1962)	1.50
Geological Circular No. 7; Offshore Exploration for	
Gas Under the Canadian Waters of the Great Lakes	
by: A.C. Newton and W.E. Koepke (1964)	.50

The following maps, microfilm, and prints of well history cards and related technical information may be obtained by writing to: Ministry of Natural Resources, Petroleum Resources Section, Whitney Block, 4th floor, Toronto M7A 1W3, Ontario. (416-965-1981).

#### **MAPS**

WELL LOCATION AND STATUS (current)

Chatham C

Colchester South

Clearville

**1. NTS Series – Key Map . A2, 3, (3A Pelee Is.) B1 to 5 (incl) C1 to 7 (incl) D3 to 13 (incl) E4 to 18 (incl) Scale:1:30 000	\$1.00 each
**2. Field and Pool	\$1.00 each
Acton	General Dawn 5-27-III
Arthur	Glencoe
Avonry	Gobles
Bayfield	Hemlock
Bayham	Hornby
Becher	Innerkip, Innerkip East
W. Becher	Kimball-Colinville, Payne
Bentpath	Seckerton, Corunna
Bickford	Ladysmith
Bickford East	Malden
Bothwell-Thamesville	Norfolk
Brigden	Norwich South
Brooke	Oil City
Camden Gore	Oil Springs
Chatham A	Oil Springs East
Chatham B	Osborne

Plympton-Sarnia A

Petrolia East

Oxlev

Courtright	Plympton-Sarnia B	
Coveny	Plympton-Sarnia C	
Dashwood	Rodney	
Dawn No. 1	Rosedale	
Dawn 4-28-III	Ruscom River	
Dawn No. 47-49	Sombra	
Duffton	Terminus, Terminus North	
D N 50.05	Otter Creek, Otter Cree	k East
Dawn No. 59-85	Tilbury A	
Dawn No. 156	Tilbury B	
Dawn No. 167	Tipperary	
Dover	Venison Creek	
Dresden	Verschoyle West	
Dungannon	Warwick	
Ekfrid	Waubuno	
Enniskillen No. 26	Willey Croft	
Enniskillen No. 28 Florence	Wilson Croft	
Florence	Wilsonville South	
Scale: 1:20 000	Zone	
Scale. 1.20 000		
**3. Lake Maps		2.00 each
Lake Erie: Map-A 79°-	-30'-78° -55'	
$M_{on} D Q O^{\circ}$	00' 70° 20'	
Map-C 80°-	30'-80°-00'	
Map-D 81°-	-00'-80° -30'	
Map-E 81°-	30'-81°-00'	
Map-F 82°-	.00'-81°-30'	
Map-B 80 - Map-C 80° - Map-D 81° - Map-E 81° - Map-F 82° - Map-G 83° -	·10'-82°-30'	
Lake Erie Grid System -	Leases and Licences	1.00 each
Scale: 1:500 000		
***		1.00
**4. Geological Maps		1.00 each
1263A (1969)	11	
69-1 Oil & Gas Fields So	outhwestern Ontario	
Scale: 1:250 000	Contain Mana	5 001·
S.w. Regional Structure	Contour Maps	5.00 each
Scale: 1:250 000	76 105 Salina	
76-100 Precambrian 76-101 Cambrian	76-105 Salina 76-106 Bass Islands	
76-101 Cambrian 76-102 Trenton	76-106 bass Islands 76-107 Dundee	
76-102 Trenton 76-103 Queenston	76-107 Dundee	
76-103 Queenston 76-104 Rochester	70-109 A-2	
Lake Erie Geological ma	ine	3.00 each
Scale: 1:50 000	ιρο	3.00 Cacii
1. Queenston Struc	eture	8 maps
2. Thorold-Grimsby		6 maps
3. Irondequoit-Rey		8 maps
4. Guelph Structure		8 maps
Sucipii Structur		Unitaps

	5. 6. 7. 8.	A-2 Structure B-Marker Structure Bass Islands Structure Dundee Structure	8 maps 8 maps 8 maps 5 maps
	1. 2. 3. 4. 5.	Drift Isopach Devonian-Carbonate Isopach Bass Islands Isopach Guelph-Rochester Isopach Whirlpool Isopach	8 maps 8 maps 8 maps 8 maps 5 maps
	Xerox	facilities copies of all production reports, engineering core analyses and well history cards	.25 per copy
	Some I Gas Ex The Ne A Lool Clinton	aneous Reports Environmental Aspects of Lake Erie Natural ploration w Petroleum Resources Data System at Lake Erie Exploration Exploration and Production on the tario side of Lake Erie	
Micr **	31st, 1	well history cards complete to December 973, containing approximately 15,000	100.00
	Gas Ex The Ne A Lool Clintor On Cofilm Set of 31st, 1	ploration we Petroleum Resources Data System of at Lake Erie Exploration of Exploration and Production on the tario side of Lake Erie well history cards complete to December 973, containing approximately 15,000	100.00

### Contents

Number Index	
A	Field Report, General Geological Reconaissance of Hudson Bay — Summer 1908
D	Detailed Geomorphic Evaluation James Bay
В	
C	Detailed Geomorphic Evaluation, James Bay
	Lowlands, Aquitaine (compiled by Geophoto)
D	Studies of Samples collected around the Hudson Bay
	Lowlands & Northern Islands — Canada — Summer
	1968. Comparisons with Kaskattama No. 1 well – 1969
E	Aeromagnetic Interpretation for part of Moosonee
	River Basin, District of Cochrane, Aquitaine – 1969
F	Aerial Magnetic Interpretation Moose River Area, Mid-
	Eastern Oil and Gas Ltd., Anthony Oil & Gas
	Explorations Ltd., Dolphin Explorations, Ltd.
G	Gravity Survey, Moose River Area, Mid-Eastern Oil &
	Gas Ltd., Anthony Oil & Gas Ltd., Dolphin Explorations
	Ltd.
Н	Gravity Survey, Fort Severn Area, Mid-Eastern Oil &
	Gas Ltd., Anthony Oil & Gas Explorations Ltd., Dolphin
	Explorations Ltd.

### Contents

### **Number Index**

I	Aerial Magnetic Interpretation, Fort Severn Area, Mid-
	Eastern Oil & Gas Ltd., Anthony Gas & Oil Explorations Ltd., Dolphin Explorations Ltd.
J	Aerial Magnetic Interpretation, Moose River Area,
· ·	Transalta Oil & Gas Ltd.
K	Gravity Survey, Moose River Area, Transalta Oil & Gas
	Ltd.
L	Transalta – Geological Report, Lic. No. 14502 and
2.6	14503 – James Bay
M	Aquitaine – Laboratory Report Pen. No. 1 Well
N	Bluewater – Geomorphic Evaluation, Moose River
	Basin
O	Bluewater – G.S.C. Magnetic Data, James Bay
P	Bluewater – Geology, James Bay
Q	Mariner – Geology and Petroleum Possibilities, Moose
	River Basin
R	Aquitaine – Palynoplanktogical Study, Sandbank Lake
	No. 1 Well
S	Consumers' – Aeromagnetic Interpretation, James Bay
T	Consumers' – Interpretation of G.S.C. Aeromagnetic
	Survey – Soweska River, James Bay
U	Aquitaine – 1. High Sensitivity Aeromagnetic Survey,
	James Bay – 2. Refraction and Gravity, James Bay
V	Aquitaine — Refraction and Gravity Survey, Hambly
	Lake Well No. 1
W	Consumers' – Aeromagnetic Survey, Martison Lake
(Not maining films of)	Donast as Aislans Manuatana G
(Not microfilmed)	Report on Airborne Magnetometer surveys for
	Aquitaine – James Bay Lowlands

\*\*Note: Subject to 7% Provincial Sales Tax on orders originating in Ontario.

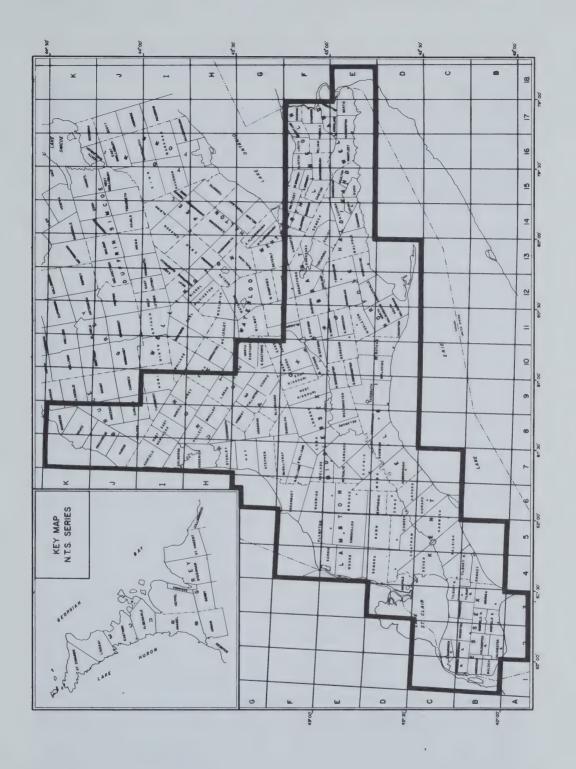


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4487         Consumers 13419 Lake Erie 122-W.         135           4489         Grusshaber No. 1 Brantford 6-WSTBK.         67           4490         Metalore No. 51 Charlotteville 4-7-II         123           4491         Hemlock No. 4 Houghton 2-1-III         131           4492         Consumers 13175 Lake Erie 176-S.         91           4493         Consumers 13173 Lake Erie 222-P         95           4494         Consumers 13176 Lake Erie 222-D         94           4497         Consumers 13177 Lake Erie 222-V         95           4500         Consumers 13192 Lake Erie 222-W         95           4500         Consumers 13196 Lake Erie 222-M         94           4501         Consumers 13496 Lake Erie 222-M         94           4503         Consumers 13454 Lake Erie 160-L         76           4504         McClure-Union Dawn 2-26-VI         104           4505         Ram No. 55 Dawn 4-33-VIII         109           4506         Craven Charlotteville 4-19-X         127           4507         New Kelore No. 1 Orford 1-23-IX.         97           4508         Metalore No. 52 Charlotteville 7-21-III         128           4509         Tec Seck No. 19 Moore 21-X         115           4510         Craven Charl	4485		
4489         Grusshaber No. 1 Brantford 6-WSTBK.         67           4490         Metalore No. 51 Charlotteville 4-7-II         123           4491         Hemlock No. 4 Houghton 2-1-III         131           4492         Consumers 13157 Lake Erie 176-S.         91           4493         Consumers 13172 Lake Erie 223-P         95           4494         Consumers 13176 Lake Erie 222-D         94           4497         Consumers 13177 Lake Erie 222-W         95           4500         Consumers 13192 Lake Erie 221-H         93           4501         Consumers 13192 Lake Erie 222-M         94           4503         Consumers 13194 Lake Erie 222-M         94           4504         McClure-Union Dawn 2-26-VI         104           4505         Ram No. 55 Dawn 4-33-VIII         109           4506         Craven Charlotteville 4-19-X         127           4507         New Kelore No. 1 Orford 1-23-IX.         97           4508         Metalore No. 52 Charlotteville 7-21-III         128           4509         Tec Seck No. 19 Moore 21-X.         115           4510         Consumers 13455 Lake Erie 159-C         74           4511         Craven Charlotteville 3-21-VIII         129           4512         Craven Union	4487		
4491       Hemlock No. 4 Houghton 2-1-III       131         4492       Consumers 13157 Lake Erie 176-S.       91         4493       Consumers 13172 Lake Erie 223-P       95         4494       Consumers 13173 Lake Erie 222-D       94         4497       Consumers 13176 Lake Erie 222-V       95         4498       Consumers 13177 Lake Erie 242-K       96         4500       Consumers 13196 Lake Erie 221-H       93         4501       Consumers 13454 Lake Erie 160-L       76         4504       McClure-Union Dawn 2-26-VI       104         4505       Ram No. 55 Dawn 4-33-VIII       109         4506       Craven Charlotteville 4-19-X       127         4507       New Kelore No. 1 Orford 1-23-IX       97         4508       Metalore No. 52 Charlotteville 7-21-III       128         4509       Tec Seck No. 19 Moore 21-X       115         4510       Craven Charlotteville 3-21-VIII       129         4511       Craven Charlotteville 3-21-VIII       129         4512       Craven Union Charlotteville 3-16-IX       126         4513       Place Lake Erie 21-B       88         4514       D. Weylie Glanford 8-12-VII       160         4515       Craven Charlotteville 3-22-IX </td <td>4489</td> <td>Grusshaber No. 1 Brantford 6-WSTBK</td> <td> 67</td>	4489	Grusshaber No. 1 Brantford 6-WSTBK	67
4492       Consumers 13157 Lake Erie 176-S.       91         4493       Consumers 13172 Lake Erie 223-P       95         4494       Consumers 13173 Lake Erie 222-V       95         4498       Consumers 13176 Lake Erie 222-V       95         4498       Consumers 13192 Lake Erie 222-W       96         4500       Consumers 13196 Lake Erie 221-H       93         4501       Consumers 13496 Lake Erie 222-M       94         4503       Consumers 13454 Lake Erie 160-L       76         4504       McClure-Union Dawn 2-26-VI       104         4505       Ram No. 55 Dawn 4-33-VIII       109         4506       Craven Charlotteville 4-19-X       127         4507       New Kelore No. 1 Orford 1-23-IX.       97         4508       Metalore No. 52 Charlotteville 7-21-III       128         4509       Tec Seck No. 19 Moore 21-X       115         4510       Craven Charlotteville 3-21-VIII       129         4511       Craven Charlotteville 3-21-VIII       129         4512       Craven Union Charlotteville 3-16-IX       126         4513       Place Lake Erie 21-B       88         4514       D. Weylie Glanford 8-12-VII       160         4515       Craven Charlotteville 3-22-IX<	4490	Metalore No. 51 Charlotteville 4-7-II	123
4493         Consumers 13172 Lake Erie 223-P         95           4494         Consumers 13176 Lake Erie 222-V         95           4497         Consumers 13176 Lake Erie 222-V         95           4498         Consumers 13177 Lake Erie 242-K         96           4500         Consumers 13192 Lake Erie 221-H         93           4501         Consumers 13454 Lake Erie 222-M         94           4503         Consumers 13454 Lake Erie 160-L         76           4504         McClure-Union Dawn 2-26-VI         104           4505         Ram No. 55 Dawn 4-33-VIII         109           4506         Craven Charlotteville 4-19-X         127           4507         New Kelore No. 1 Orford 1-23-IX         97           4508         Metalore No. 52 Charlotteville 7-21-III         128           4509         Tec Seck No. 19 Moore 21-X         115           4510         Consumers 13455 Lake Erie 159-C         74           4511         Craven Charlotteville 3-21-VIII         129           4512         Craven Union Charlotteville 3-16-IX         126           4513         Place Lake Erie 21-B         88           4514         D. Weylie Glanford 8-12-VII         160           4515         Craven Charlotteville 3-16-IX	4491	Hemlock No. 4 Houghton 2-1-III	131
4493         Consumers 13172 Lake Erie 223-P         95           4494         Consumers 13176 Lake Erie 222-V         95           4497         Consumers 13176 Lake Erie 222-V         95           4498         Consumers 13177 Lake Erie 242-K         96           4500         Consumers 13192 Lake Erie 221-H         93           4501         Consumers 13454 Lake Erie 222-M         94           4503         Consumers 13454 Lake Erie 160-L         76           4504         McClure-Union Dawn 2-26-VI         104           4505         Ram No. 55 Dawn 4-33-VIII         109           4506         Craven Charlotteville 4-19-X         127           4507         New Kelore No. 1 Orford 1-23-IX         97           4508         Metalore No. 52 Charlotteville 7-21-III         128           4509         Tec Seck No. 19 Moore 21-X         115           4510         Consumers 13455 Lake Erie 159-C         74           4511         Craven Charlotteville 3-21-VIII         129           4512         Craven Union Charlotteville 3-16-IX         126           4513         Place Lake Erie 21-B         88           4514         D. Weylie Glanford 8-12-VII         160           4515         Craven Charlotteville 3-16-IX	4492	Consumers 13157 Lake Erie 176-S	91
4494         Consumers 13173 Lake Erie 222-V         94           4497         Consumers 13176 Lake Erie 222-V         95           4498         Consumers 13197 Lake Erie 242-K         96           4500         Consumers 13192 Lake Erie 221-H         93           4501         Consumers 13196 Lake Erie 222-M         94           4503         Consumers 13454 Lake Erie 160-L         76           4504         McClure-Union Dawn 2-26-VI         104           4505         Ram No. 55 Dawn 4-33-VII         109           4506         Craven Charlotteville 4-19-X         127           4507         New Kelore No. 1 Orford 1-23-IX         97           4508         Metalore No. 52 Charlotteville 7-21-III         128           4509         Tec Seck No. 19 Moore 21-X         115           4510         Consumers 13455 Lake Erie 159-C         74           4511         Craven Charlotteville 3-21-VIII         129           4512         Craven Union Charlotteville 3-16-IX         126           4513         Place Lake Erie 21-B         88           4514         D. Weylie Glanford 8-12-VII         160           4515         Craven Charlotteville 5-17-VIII         160           4516         G. Ovenden No. 1 Wainfleet 5-23-III	4493		
4497         Consumers 13176 Lake Erie 222-V         95           4498         Consumers 13177 Lake Erie 242-K         96           4500         Consumers 13192 Lake Erie 221-H         93           4501         Consumers 13196 Lake Erie 222-M         94           4503         Consumers 13454 Lake Erie 160-L         76           4504         McClure-Union Dawn 2-26-VI         104           4505         Ram No. 55 Dawn 4-33-VIII         109           4506         Craven Charlotteville 4-19-X         127           4507         New Kelore No. 1 Orford 1-23-IX         97           4508         Metalore No. 52 Charlotteville 7-21-III         128           4509         Tec Seck No. 19 Moore 21-X         115           4510         Consumers 13455 Lake Erie 159-C         74           4511         Craven Charlotteville 3-21-VIII         129           4512         Craven Union Charlotteville 3-16-IX         126           4513         Place Lake Erie 21-B         88           4514         D. Weylie Glanford 8-12-VII         160           4515         Craven Charlotteville 1-20-IX         127           4516         G. Ovenden No. 1 Wainfleet 5-23-III         158           4517         Craven Union Charlotteville 8-2	4494		
4498         Consumers 13177 Lake Erie 242-K         96           4500         Consumers 13196 Lake Erie 221-H         93           4501         Consumers 13196 Lake Erie 222-M         94           4503         Consumers 13454 Lake Erie 160-L         76           4504         McClure-Union Dawn 2-26-VI         104           4505         Ram No. 55 Dawn 4-33-VIII         109           4506         Craven Charlotteville 4-19-X         127           4507         New Kelore No. 1 Orford 1-23-IX         97           4508         Metalore No. 52 Charlotteville 7-21-III         128           4509         Tec Seck No. 19 Moore 21-X         115           4510         Consumers 13455 Lake Erie 159-C         74           4511         Craven Charlotteville 3-21-VIII         129           4512         Craven Union Charlotteville 3-16-IX         126           4513         Place Lake Erie 21-B         88           4514         D. Weylie Glanford 8-12-VII         160           4515         Craven Charlotteville 1-20-IX         127           4516         G. Ovenden No. 1 Wainfleet 5-23-III         158           4517         Craven Union Charlotteville 8-22-VII         130           4519         Place No. 2 Lake Erie 22-	4497		
4501       Consumers 13196 Lake Erie 222-M       94         4503       Consumers 13454 Lake Erie 160-L       76         4504       McClure-Union Dawn 2-26-VI       104         4505       Ram No. 55 Dawn 4-33-VIII       109         4506       Craven Charlotteville 4-19-X       127         4507       New Kelore No. 1 Orford 1-23-IX       97         4508       Metalore No. 52 Charlotteville 7-21-III       128         4509       Tec Seck No. 19 Moore 21-X       115         4510       Consumers 13455 Lake Erie 159-C       74         4511       Craven Charlotteville 3-21-VIII       129         4512       Craven Union Charlotteville 3-16-IX       126         4513       Place Lake Erie 21-B       88         4514       D. Weylie Glanford 8-12-VII       160         4515       Craven Charlotteville 1-20-IX       127         4516       G. Ovenden No. 1 Wainfleet 5-23-III       158         4517       Craven Union Charlotteville 8-22-VII       130         4519       Place No. 2 Lake Erie 22-E       89         4520       Ram No. 56 Moore 3-4-II       112         4521       Craven Charlotteville 5-17-VIII       126         4523       Craven Charlotteville 3-22-IX	4498		
4501       Consumers 13196 Lake Erie 222-M       94         4503       Consumers 13454 Lake Erie 160-L       76         4504       McClure-Union Dawn 2-26-VI       104         4505       Ram No. 55 Dawn 4-33-VIII       109         4506       Craven Charlotteville 4-19-X       127         4507       New Kelore No. 1 Orford 1-23-IX       97         4508       Metalore No. 52 Charlotteville 7-21-III       128         4509       Tec Seck No. 19 Moore 21-X       115         4510       Consumers 13455 Lake Erie 159-C       74         4511       Craven Charlotteville 3-21-VIII       129         4512       Craven Union Charlotteville 3-16-IX       126         4513       Place Lake Erie 21-B       88         4514       D. Weylie Glanford 8-12-VII       160         4515       Craven Charlotteville 1-20-IX       127         4516       G. Ovenden No. 1 Wainfleet 5-23-III       158         4517       Craven Union Charlotteville 8-22-VII       130         4519       Place No. 2 Lake Erie 22-E       89         4520       Ram No. 56 Moore 3-4-II       112         4521       Craven Charlotteville 5-17-VIII       126         4523       Craven North Walsingham 8-12-VIII<	4500		
4503       Consumers 13454 Lake Erie 160-L       76         4504       McClure-Union Dawn 2-26-VI       104         4505       Ram No. 55 Dawn 4-33-VIII       109         4506       Craven Charlotteville 4-19-X       127         4507       New Kelore No. 1 Orford 1-23-IX       97         4508       Metalore No. 52 Charlotteville 7-21-III       128         4509       Tec Seck No. 19 Moore 21-X       115         4510       Consumers 13455 Lake Erie 159-C       74         4511       Craven Charlotteville 3-21-VIII       129         4512       Craven Union Charlotteville 3-16-IX       126         4513       Place Lake Erie 21-B       88         4514       D. Weylie Glanford 8-12-VII       160         4515       Craven Charlotteville 1-20-IX       127         4516       G. Ovenden No. 1 Wainfleet 5-23-III       158         4517       Craven Charlotteville 8-22-VII       130         4519       Place No. 2 Lake Erie 22-E       89         4520       Ram No. 56 Moore 3-4-II       112         4521       Craven Charlotteville 5-17-VIII       126         4523       Craven Charlotteville 3-22-IX       130         4524       Ram No. 57 Enniskillen 6-27-XIII			
4504       McClure-Union Dawn 2-26-VI       104         4505       Ram No. 55 Dawn 4-33-VIII.       109         4506       Craven Charlotteville 4-19-X       127         4507       New Kelore No. 1 Orford 1-23-IX       97         4508       Metalore No. 52 Charlotteville 7-21-III       128         4509       Tec Seck No. 19 Moore 21-X       115         4510       Consumers 13455 Lake Erie 159-C       74         4511       Craven Charlotteville 3-21-VIII       129         4512       Craven Union Charlotteville 3-16-IX       126         4513       Place Lake Erie 21-B       88         4514       D. Weylie Glanford 8-12-VII       160         4515       Craven Charlotteville 1-20-IX       127         4516       G. Ovenden No. 1 Wainfleet 5-23-III       158         4517       Craven Union Charlotteville 8-22-VII       130         4519       Place No. 2 Lake Erie 22-E       89         4520       Ram No. 56 Moore 3-4-II       112         4521       Craven Charlotteville 5-17-VIII       126         4523       Craven Charlotteville 3-22-IX       130         4524       Ram No. 57 Enniskillen 6-27-XIII       110         4525       Craven North Walsingham 8-12-VII	4503		
4505       Ram No. 55 Dawn 4-33-VIII.       109         4506       Craven Charlotteville 4-19-X       127         4507       New Kelore No. 1 Orford 1-23-IX.       97         4508       Metalore No. 52 Charlotteville 7-21-III.       128         4509       Tec Seck No. 19 Moore 21-X.       115         4510       Consumers 13455 Lake Erie 159-C.       74         4511       Craven Charlotteville 3-21-VIII.       129         4512       Craven Union Charlotteville 3-16-IX.       126         4513       Place Lake Erie 21-B.       88         4514       D. Weylie Glanford 8-12-VII.       160         4515       Craven Charlotteville 1-20-IX.       127         4516       G. Ovenden No. 1 Wainfleet 5-23-III.       158         4517       Craven Union Charlotteville 8-22-VII.       130         4519       Place No. 2 Lake Erie 22-E.       89         4520       Ram No. 56 Moore 3-4-II.       112         4521       Craven Charlotteville 3-22-IX.       130         4522       Craven Charlotteville 3-22-IX.       130         4523       Craven Charlotteville 3-22-IX.       130         4524       Ram No. 57 Enniskillen 6-27-XIII.       110         4525       Craven North W			
4506       Craven Charlotteville 4-19-X       127         4507       New Kelore No. 1 Orford 1-23-IX       97         4508       Metalore No. 52 Charlotteville 7-21-III       128         4509       Tec Seck No. 19 Moore 21-X       115         4510       Consumers 13455 Lake Erie 159-C       74         4511       Craven Charlotteville 3-21-VIII       129         4512       Craven Union Charlotteville 3-16-IX       126         4513       Place Lake Erie 21-B       88         4514       D. Weylie Glanford 8-12-VII       160         4515       Craven Charlotteville 1-20-IX       127         4516       G. Ovenden No. 1 Wainfleet 5-23-III       158         4517       Craven Charlotteville 8-22-VII       130         4519       Place No. 2 Lake Erie 22-E       89         4520       Ram No. 56 Moore 3-4-II       112         4521       Craven Charlotteville 5-17-VIII       126         4523       Craven Charlotteville 3-22-IX       130         4524       Ram No. 57 Enniskillen 6-27-XIII       110         4525       Craven North Walsingham 8-12-VIII       148         4526       Mercury Moore 6-14-III       113         4527       Craven North Walsingham 6-13-IX <td></td> <td></td> <td></td>			
4507       New Kelore No. 1 Orford 1-23-IX.       97         4508       Metalore No. 52 Charlotteville 7-21-III.       128         4509       Tec Seck No. 19 Moore 21-X.       115         4510       Consumers 13455 Lake Erie 159-C.       74         4511       Craven Charlotteville 3-21-VIII.       129         4512       Craven Union Charlotteville 3-16-IX.       126         4513       Place Lake Erie 21-B.       88         4514       D. Weylie Glanford 8-12-VII.       160         4515       Craven Charlotteville 1-20-IX.       127         4516       G. Ovenden No. 1 Wainfleet 5-23-III.       158         4517       Craven Union Charlotteville 8-22-VII.       130         4519       Place No. 2 Lake Erie 22-E.       89         4520       Ram No. 56 Moore 3-4-II.       112         4521       Craven Charlotteville 5-17-VIII.       126         4523       Craven Charlotteville 3-22-IX.       130         4524       Ram No. 57 Enniskillen 6-27-XIII.       110         4525       Craven North Walsingham 8-12-VIII.       110         4526       Mercury Moore 6-14-III.       113         4527       Craven North Walsingham 6-13-IX.       149         4528       Consume		Craven Charlotteville 4-19-X	127
4508       Metalore No. 52 Charlotteville 7-21-III       128         4509       Tec Seck No. 19 Moore 21-X       115         4510       Consumers 13455 Lake Erie 159-C       74         4511       Craven Charlotteville 3-21-VIII       129         4512       Craven Union Charlotteville 3-16-IX       126         4513       Place Lake Erie 21-B       88         4514       D. Weylie Glanford 8-12-VII       160         4515       Craven Charlotteville 1-20-IX       127         4516       G. Ovenden No. 1 Wainfleet 5-23-III       158         4517       Craven Union Charlotteville 8-22-VII       130         4519       Place No. 2 Lake Erie 22-E       89         4520       Ram No. 56 Moore 3-4-II       112         4521       Craven Charlotteville 5-17-VIII       126         4523       Craven Charlotteville 3-22-IX       130         4524       Ram No. 57 Enniskillen 6-27-XIII       110         4525       Craven North Walsingham 8-12-VIII       148         4526       Mercury Moore 6-14-III       113         4527       Craven North Walsingham 6-13-IX       149         4528       Consumers 13456 Lake Erie 183-R       78         4540       Place No. 4 Lake Erie 13-L			
4509       Tec Seck No. 19 Moore 21-X.       115         4510       Consumers 13455 Lake Erie 159-C.       74         4511       Craven Charlotteville 3-21-VIII.       129         4512       Craven Union Charlotteville 3-16-IX.       126         4513       Place Lake Erie 21-B.       88         4514       D. Weylie Glanford 8-12-VII.       160         4515       Craven Charlotteville 1-20-IX.       127         4516       G. Ovenden No. 1 Wainfleet 5-23-III.       158         4517       Craven Union Charlotteville 8-22-VII.       130         4519       Place No. 2 Lake Erie 22-E.       89         4520       Ram No. 56 Moore 3-4-II.       112         4521       Craven Charlotteville 5-17-VIII.       126         4523       Craven Charlotteville 3-22-IX.       130         4524       Ram No. 57 Enniskillen 6-27-XIII.       110         4525       Craven North Walsingham 8-12-VIII.       148         4526       Mercury Moore 6-14-III.       113         4527       Craven North Walsingham 6-13-IX.       149         4528       Consumers 13456 Lake Erie 183-R.       78         4540       Place No. 4 Lake Erie 13-L.       88         4542       Consumers 13262 Lake			
4510       Consumers 13455 Lake Erie 159-C       74         4511       Craven Charlotteville 3-21-VIII       129         4512       Craven Union Charlotteville 3-16-IX       126         4513       Place Lake Erie 21-B       88         4514       D. Weylie Glanford 8-12-VII       160         4515       Craven Charlotteville 1-20-IX       127         4516       G. Ovenden No. 1 Wainfleet 5-23-III       158         4517       Craven Union Charlotteville 8-22-VII       130         4519       Place No. 2 Lake Erie 22-E       89         4520       Ram No. 56 Moore 3-4-II       112         4521       Craven Charlotteville 5-17-VIII       126         4523       Craven Charlotteville 3-22-IX       130         4524       Ram No. 57 Enniskillen 6-27-XIII       110         4525       Craven North Walsingham 8-12-VIII       148         4526       Mercury Moore 6-14-III       113         4527       Craven North Walsingham 6-13-IX       149         4528       Consumers 13456 Lake Erie 183-R       78         4540       Place No. 4 Lake Erie 221-L       93         4543       Consumers 13262 Lake Erie 220-F       92         4544       Forbes No. 6 Dawn 7-26-VII			
4511       Craven Charlotteville 3-21-VIII       129         4512       Craven Union Charlotteville 3-16-IX       126         4513       Place Lake Erie 21-B       88         4514       D. Weylie Glanford 8-12-VII       160         4515       Craven Charlotteville 1-20-IX       127         4516       G. Ovenden No. 1 Wainfleet 5-23-III       158         4517       Craven Union Charlotteville 8-22-VII       130         4519       Place No. 2 Lake Erie 22-E       89         4520       Ram No. 56 Moore 3-4-II       112         4521       Craven Charlotteville 5-17-VIII       126         4523       Craven Charlotteville 3-22-IX       130         4524       Ram No. 57 Enniskillen 6-27-XIII.       110         4525       Craven North Walsingham 8-12-VIII       148         4526       Mercury Moore 6-14-III       113         4527       Craven North Walsingham 6-13-IX.       149         4528       Consumers 13456 Lake Erie 18-R       78         4540       Place No. 4 Lake Erie 13-L       88         4542       Consumers 13261 Lake Erie 221-L       93         4543       Consumers 13262 Lake Erie 220-F       92         4544       Forbes No. 6 Dawn 7-26-VII	4510		
4512       Craven Union Charlotteville 3-16-IX       126         4513       Place Lake Erie 21-B       88         4514       D. Weylie Glanford 8-12-VII       160         4515       Craven Charlotteville 1-20-IX       127         4516       G. Ovenden No. 1 Wainfleet 5-23-III       158         4517       Craven Union Charlotteville 8-22-VII       130         4519       Place No. 2 Lake Erie 22-E       89         4520       Ram No. 56 Moore 3-4-II       112         4521       Craven Charlotteville 5-17-VIII       126         4523       Craven Charlotteville 3-22-IX       130         4524       Ram No. 57 Enniskillen 6-27-XIII.       110         4525       Craven North Walsingham 8-12-VIII       148         4526       Mercury Moore 6-14-III       113         4527       Craven North Walsingham 6-13-IX       149         4528       Consumers 13456 Lake Erie 183-R       78         4540       Place No. 4 Lake Erie 13-L       88         4542       Consumers 13261 Lake Erie 221-L       93         4543       Consumers 13262 Lake Erie 220-F       92         4544       Forbes No. 6 Dawn 7-26-VII       159			
4513       Place Lake Erie 21-B.       88         4514       D. Weylie Glanford 8-12-VII       160         4515       Craven Charlotteville 1-20-IX.       127         4516       G. Ovenden No. 1 Wainfleet 5-23-III       158         4517       Craven Union Charlotteville 8-22-VII       130         4519       Place No. 2 Lake Erie 22-E       89         4520       Ram No. 56 Moore 3-4-II       112         4521       Craven Charlotteville 5-17-VIII       126         4523       Craven Charlotteville 3-22-IX       130         4524       Ram No. 57 Enniskillen 6-27-XIII       110         4525       Craven North Walsingham 8-12-VIII       148         4526       Mercury Moore 6-14-III       113         4527       Craven North Walsingham 6-13-IX       149         4528       Consumers 13456 Lake Erie 183-R       78         4540       Place No. 4 Lake Erie 13-L       88         4542       Consumers 13261 Lake Erie 221-L       93         4543       Consumers 13262 Lake Erie 220-F       92         4544       Forbes No. 6 Dawn 7-26-VII       105         Kenartha No. 8 Arthur 8-24-VII       159			
4514       D. Weylie Glanford 8-12-VII       160         4515       Craven Charlotteville 1-20-IX       127         4516       G. Ovenden No. 1 Wainfleet 5-23-III       158         4517       Craven Union Charlotteville 8-22-VII       130         4519       Place No. 2 Lake Erie 22-E       89         4520       Ram No. 56 Moore 3-4-II       112         4521       Craven Charlotteville 5-17-VIII       126         4523       Craven Charlotteville 3-22-IX       130         4524       Ram No. 57 Enniskillen 6-27-XIII       110         4525       Craven North Walsingham 8-12-VIII       148         4526       Mercury Moore 6-14-III       113         4527       Craven North Walsingham 6-13-IX       149         Consumers 13456 Lake Erie 183-R       78         4540       Place No. 4 Lake Erie 13-L       88         4542       Consumers 13261 Lake Erie 221-L       93         4543       Consumers 13262 Lake Erie 220-F       92         4544       Forbes No. 6 Dawn 7-26-VII       105         Kenartha No. 8 Arthur 8-24-VII       159			
4515       Craven Charlotteville 1-20-IX.       127         4516       G. Ovenden No. 1 Wainfleet 5-23-III       158         4517       Craven Union Charlotteville 8-22-VII       130         4519       Place No. 2 Lake Erie 22-E       89         4520       Ram No. 56 Moore 3-4-II       112         4521       Craven Charlotteville 5-17-VIII       126         4523       Craven Charlotteville 3-22-IX       130         4524       Ram No. 57 Enniskillen 6-27-XIII       110         4525       Craven North Walsingham 8-12-VIII       148         4526       Mercury Moore 6-14-III       113         4527       Craven North Walsingham 6-13-IX       149         4528       Consumers 13456 Lake Erie 183-R       78         4540       Place No. 4 Lake Erie 13-L       88         4542       Consumers 13261 Lake Erie 221-L       93         4543       Consumers 13262 Lake Erie 220-F       92         4544       Forbes No. 6 Dawn 7-26-VII       105         4545       Kenartha No. 8 Arthur 8-24-VII       159			
4516       G. Ovenden No. 1 Wainfleet 5-23-III       158         4517       Craven Union Charlotteville 8-22-VII       130         4519       Place No. 2 Lake Erie 22-E       89         4520       Ram No. 56 Moore 3-4-II       112         4521       Craven Charlotteville 5-17-VIII       126         4523       Craven Charlotteville 3-22-IX       130         4524       Ram No. 57 Enniskillen 6-27-XIII       110         4525       Craven North Walsingham 8-12-VIII       148         4526       Mercury Moore 6-14-III       113         4527       Craven North Walsingham 6-13-IX       149         4528       Consumers 13456 Lake Erie 183-R       78         4540       Place No. 4 Lake Erie 13-L       88         4542       Consumers 13261 Lake Erie 221-L       93         4543       Consumers 13262 Lake Erie 220-F       92         4544       Forbes No. 6 Dawn 7-26-VII       105         4545       Kenartha No. 8 Arthur 8-24-VII       159			
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4542       Consumers 13261 Lake Erie 221-L       93         4543       Consumers 13262 Lake Erie 220-F       92         4544       Forbes No. 6 Dawn 7-26-VII       105         4545       Kenartha No. 8 Arthur 8-24-VII       159			
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		Samples 340			SHOOD WOOD	2.46	Copoconk		Kirkfield	Verulam	Cobourg	Collingwood	Meaford Dundas	Queenston	Whirlpool	Manitoulin	Cabot Head	Grimsby	Thoroid	Reynoles	irondequoit	Rochester	Gasport	Goat Island	Eramosa	Guella	A-1 unit care	on	A-2 unit sall	20		B unit salt			Dunit soll		G URIT SA	Bass Islands	Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus		Kettle Point		Drift/Lake bottom	Lake/Ground level	103	NTACTS:	MITCHELL,	MITCHELL	GRUSSHABER	-
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			1	L	NIC	COREO INICAVAL	CONDITION	CONTRACT					Z	LOGGED INT	LOGGING CO.:					_	n	SIZE							INTERVAL					NIC	INTERVAL					465*-		15		SPL. TRAY No :	ABANDONED	COMPLETED:	SPUDDED:	CONFIDENTIAL:	_	THICK LATITUDE:	RIG TYPE:		6-WSTBK	FORD LOT:
PERFORATED	OIL N. GAS PRESSURE PRODUCING INTVL.	FINAL	_			VAL REC. ANAL CORED INTERVAL		010000	COBING REC		_	_		INTERVAL TYPE LOGG		LOGGING REC				365	133		AND							WATER RECORD					NATURAL FLOW	NITIAL OIL DE				-	385 1.2 MCF/D		INIT	3086		NOVEMBER		DECEMBER	80-09-56	E .		540*	PERMIT No.	6 CONC:
OPEN HOLE YES		AL RESULTS	_	_		DINIERVAL REC ANAL			ORD	_	_			LOGGED INTERVAL TYPE		RECORD				PACKER		HOW SET REC.	TUBING RECORD						OW TYPE	ORD				Т	OW API GRAVITY				_	0 180 PSIG		LOW S.I. PRESSURE		INDEX No. 114		. 1977	• 1977	1977	SEQ: 1	77	679*+ 5*		4489	WSTRK

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		odinbies - / / /	PAPE	2	Contract Contract	Shadow lake	Copoconk	200000	Verdicin	Copourg	Colingwood	Mediora-Dungas	Queenston	Whirlpool	Manifoulin	Cabot Head	Grimsby	Thoroid	Revocies	Rochester	Gasport	Goat Island	Eramosa	Guelph	A-1 unit evan	anhy	A-2 unit sall		S B unit sair	)	C unit	unit	-		G unit shale	Bose lelande	Amherstburg	Lucas	Dundee	Marcellus		Kettle Point	MBTON	ake /Ground level	1 11		PETROLEUM		MURPHY	
		REMARKS	+	2200	2000	1,02	2670	2000	DE NO	DIORC	7000	2000	016	901	880	825	820	000	Ann	/60	469	670		432	6.T to			371	362	Τ	288	T		95	1	000							-	-		TOP	RESOURCE	7		TOWNSHIP:
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PERFORATED	GAS PRESSURE PRODUCING				7	REC.		ı				22201-23060 GRAL	LOGGED INTERVAL TIPE	CO.: SCHL	LOGGING		7.00m 17.0m 2224 ·	24 OH E71 .	10.751 40.01 404	WEIGHT SET AT	CASING AND					43*	INTERVAL STAT. I.EV.	WATER			NIC	AL.	INITIAL OIL RECORD		_		2782*	224	RVAL	Н	39	ABANDONED: AUGUST	COMPLETED: Alleriet	HAL: AL	80-	LATITUDE:	CO-ORDINATES: 551 N: 350 E	AL DEPTH: 2	PERN	LOT: 14 CONC:
TED OPEN HOLE	NTVL N N	FINAL RESULTS				ANAL CORED INTERVAL REC. ANAL	EDW.	CONTROL ARCOND	7			2220 - 2966 CALP	SOED INTERVAL		RECORD		ć	CASING SHOE 100	CASING SHOE	HOW SET REC.	CORD					FRESH	AT LEV. FLOW TYPE	RECORD				AL FLOW API GRAVITY	L RECORD						AL FLOW S.I. PRESSURE		NDEX	26.	40 1977	4	W SEQ: 1	2	350 °E 851 ° 0°	0	.	VIII

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		UNIT EQUIV	tal Depth Samples	RECAMBRI	CAMBRIAN		BLACK			TRENTON		I				CATARACT						AMABEL																	214 62	DETROIT		1	HAME TON		PRT, LAMBTON	Drift/L	Lake/G	place store of	GEOLOGICAL CONTACTS:	DRILLING CO:	ъ	L NAME:	COUNTY: BXAN
		IV 100	mples 575	AN		Shadow Lake	Gull River	Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Meaford Dundas	Queenston	Whirlpool	Cooo nego	Cohot	noroid	Teynoles	Irondequoit	Kocnester	Gasport	Goat Island	Eramosa	Guelph	ечар	A-1 unit carb		A-2 unit salt		Sa	0	C unit	CD:+			G unit shale	Boss Islands	Amherstburg	Lucas	Dundee	Marcellus		Kettle Point		Drift/Lake bottom	Lake/Ground level	62	NTACTS:	PETROLEUM	HYSLOP, GEORGE		
		REMARKS	ft.					1					1	570	740	400	500	COP	104	450	900	284	352	283	223	-	200	hy.	+	160	2	murker	a/e 131		62	ale	ale		-							2	;	2	- 1			_1	TOWNSHIP:
		CO	MQC: 7																																									I			199		ELEV THICK	"	U	CARORA	
PERFORATED OPEN HOLE YES	PRODUCING INTVL 467* 470*	OIL NIL NIL					CORED INTERVAL REC. ANAL CORED INTERVAL REC. ANAL		CORING RECORD					LOGGED INTERVAL TYPE LOGGED INTERVAL TYPE	LOGGING CO.				45/4	8.63# 24.0# 62* BAREFOOT	WEIGHT SET AT	CASING AND TUBING RECORD					95° 20° SULPHUR	60° 20° FR		WATER RECORD			NIL	AL	INITIAL OIL RECORD				_	467'- 470' 30 MCF/D 175 PSIG	AL NATURA	INITIAL GAS RECORD	SPL. TRAY No.: 2924 INDEX No. 113		ED: MARCH 22,	SPUDDED: MARCH 3, 1977	AL: APRIL 22, 1977	LONGITUDE:	LATITUDE: 4	CO-ORDINATES: 477'S: 504'W	RB.T.D.	-ν	LOT: 2 CONC: V

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	COLUMBUS F	Total Depth Sc	PRECAMBRIAN	CAMBRIAN	RIVER	O BLACK	RD	TRENTON	_		AN			3				T		AMABEL			SI	LUI	317	AN	_					_					RIVER	_	T	HAMILTON	AN	PRT. LAMBTON	Drift/L	Lake/C	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	OPER ATOR:	WELL NAME:
	FACIES PRESENT	Samples 589 ft.			Shadow Lake	Copoconk	NIT NITE OF	Veruiom	Cobourg	Collingwood	Meaford-Dundas	Queenston	Whirlpool	Manitoulin	Cabot Head	Grimsby	Thorold	Beynoles	TOCTION IN	Bachester	Goat Island	Eramosa	Guelph	A-1 unit evap	carh	A-2 unit salt		Г	B unit salt			D unit salt			Islan	Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus	Kettle Point		Drift/Lake bottom	Lake/Ground level	291 ₦		PETROLEU		DRAYTON
	IN LUCAS					-																																505	22.0	291			9-0			TOP	M RESOURCE	PET-LTD.	PEREGRN DUNWICH
	CAS	MQC: 7	H	+		1																			-					-	-		-					1	+	+	-			749		ELEV. THICK.			
			Ш	1	NTI NIERVAL	CONDITION					NIL	LOGGED INTERVAL	10,			_		7 00 20 20	1	_			528*	490*	270	INTERVAL			9	5000	3270	INTERVAL						NIL	NTERVAL	SPL. TRAY No.:	ABANDONED:	COMPLETED:	SPUDDED:	CONFIDENTIAL:	_	_	RIG TYPE;	~	1-501-A
PRODUCING IT		-			AEC.	000	CORING RECORD					JAAL		LOGGING F			14.0# 514. T	1000	300	SET			1559	130	1 2 2	!					10000	NATURAL FLOW			_	_		1000	NATURAL FLOW	STEE STEEL	JUNE			AUGUST	81-26-30 W	42-43-08 N	200°S: 200°W	589 PBTD	PERMIT No
NTVL.	NIC KESOLIS				MARK COREO INTERVAL	-word	ECONO					LOGGED INTERVAL		RECORD		-	せんつくださ	CASING SHOE	- 1	HOW SET			SULPI	SULPHUR	TRUM	FLOW TYPE	0				- 504	FLOW ABI GRAVITY							20	NDEX No. 988	78			18, 1978	W SEQ:	2	V. 749*+ 1		4324

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	ON FILE		1620		Lave						2	spour	3		3	ad				7		i			evap.	carb.	anhy.	Salt	onny.	30//	marker	shale	salt	carb	sha/e	shale	da	org					11				N C	EUM R	ATER	ERS 1	12
		REMARKS											TRCT	1576	1562	1508	1479	1470	1454		1426			1132		1125	1118	40.0	1070	200	ROOT	980		860	777	750	664	0.14	419	296	280	246			95	44	TOP	RESOURCE	GAS DEV	13449 LAKE	TOWNSHIP:
			M 0 C :					L			$\downarrow$																			1																573	ELEV.			KE ERIE	10
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					MIL	CORED INTERV	CONDITION				2001-1000	229T=195	1	10,		_		_	8.63m 24	-	SIZE	0						INTERVAL				NIL	INTERVAL					TTTTTTTT	1120 1120	INTERVAL		SPL. TRAY No	ABANDONED:	COMPLETED:	SPUDDED:	CONFIDENTIAL	LATITUDE:	CO-ORDINATES	RIG TYPE		
2	GAS PRE	-	_			REC.			-			GRNL	N-EXVAL	SCHLUMBERGER	LOG				24.0# 3	7		CASING AND			_	_		STAT.	WA					INITIAL	_				A C	-	INITIAL	2598				0	42-35-30	1	2820	PERMIT	LOT: 55 C
DEBEODATED	OIL NIL GAS NIL PRESSURE PRODUCING INTVL.	FINA	_			ANAL CORED INTERVAL	STORED	CORING RECORD		_			PE LOGGE	ERGER	OGGING RECORD				309 CEME									AT LEV. FLOW	D 250				NATURAL FLOW	INITIAL OIL RECORD				30 907/0		NATURAL FL	GAS		JUNE 23,		JUNE 19	٩,			ELEV.	20	CONC:
OBEN HOLE	NIL	L RESULTS				INTERVAL		RO			Sea Tong	96 - 1622	LUGGED IN ERVAL		ORD				CEMENTED	ING	HOW SET	TUBING RECORD				-		-	0				+	ORD	_				525	FLOW S.I.			1977			1978	ח		573+444	4431	
n		S				REC ANAL			-			CALP	_	1		-			_	95	REC							ТҮРЕ	-				API GRAVITY					O PUL	D 1510	S.I. PRESSURE		984				100			4 17 17		

링	П		OR	I N	)VI	CI	AN		Γ	-	1110	PITT	): 	LA	I KE	. E	RI		LL	IRI	_	OT:	_	57		_		ONC		T		W DE	vo	INC	AN		Т	_	AR:	_	197		Te
PRECAMBRI	CAMBRIAN	RIVER	BLACK		TRENTON					CRIACACI	2				3300	AMARE									_	-					RIVER	DETROIT		HAMILTON			ш	Lake/G	Samples start at	DLOGICAL CC	DRILLING CO :	D	
1627		Shadow Lake	Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Queenston	Whirlpool	Manitoulin	Cabot Head	Grimsby	Thoroid	Irondequoit	Rochester	Gasport	Goat Island	Guelph	evap		unit			B uni÷	Cunit	-			G unit shale	Boss Islands	Amherstburg	Lucas	Dundee	Marcellus	Zenie Point	-	ake bottom	round level	340	NTACTS:	UNDERWATER	CONSUMERS	CONSUMERS
								1584	1680	1568	1506	1471	2041		1428			1142		1130	1124	1080	-		*	t	876		†	676	294		228	320	276	+	96	44		TOP	RECOURCE	GAS CO	1344R
MQC: 7																														1				-				573	H	-		-	11 N
							3351-162	•	6,			_	_		$\vdash$	73	_	1	L		INTERVAL				NIC	INTERVAL			1	_	L	1450*	INTERVAL	07 E. 10 AT 100.	ABANDONED:	COMPLETED	SPUDDED:	CONFIDENTIAL:	ш			TOTAL DEPTH:	
n		Acc.	000	CORING R				VAL TYPE LO	SCHLUMBERGE	LOGGING R		_	355	961	_		_				SIAI. LEV.	WATER R		_		NATURAL	INITIAL OIL I		_	_	_	SHO	NATURAL	INITIAL GAS	JUNE			m	47-33	35-10	OPJ ELEV	1627 PBT	CONC.
DAGE		$\neg$	IW/03	ECORD			10191-1616	OGGED INTERVAL	73	ECORD			EMENTED	ANGING	HOW SET	ING RECORD					+	-				FLOW	RECORD						S.I.		-								11 11 12
	REMARKS	1627 11 MQC: 7	W Lake NIL	OOR CONDITION STORED NITERVAL REC. ANAL CORED INTERVAL PLANTAL CORED INTERVAL REC. ANAL CORED INTERVAL RESULT REMARKS	CORED INTERVAL REC. AND CORED INTERVAL  WALERS AND CORED INTERVAL REC. AND CORED INTERVAL  NIL  REMARKS  CORED INTERVAL REC. AND CORED INTERVAL  NIL  FINAL RESULT	Om CORING RECORD  STORED  STORED  NIL  NIL  REMARKS  FINAL RESULT  FINAL RESULT	TEZY 11 MOC: 7 FINAL RESULTS	1627 +	1584   166ED   NTERVAL   TYPE   LOGGED   NTERVAL   TYPE   LOGGED   NTERVAL   76 = 1628*   GRNL   76 = 1628*   GRNL   343*=1616*   GRNL   343*=1616*   GRNL   343*=1616*   GRNL   343*=1616*   GRNL   GRECORD   GRNL   GRECORD   GRNL   GRECORD   GRNL   GRECORD   GRNL   GRECORD   GRED   NTERVAL   GRED   NTERVAL   GRED   NTERVAL   GRED   NTERVAL   GRED   GRED	1680   LOGGING CO: SCH_UMBERGER   TOGED INTERVAL   TYPE   LOGGED INTERVAL   TYPE   TOGED   TOGE	1588	1506  1506  1506  1508	1596   Loging   Log	1434   24.0H   355° CEMENTED	1454   10.75   51.0H   96° HANGTIG	SIZE   WEIGHT ST AT HOW SET	CASING AND TUBING RECORD	SIZE	Size   CASING AND TUBING RECORD   Size   WEIGHT   SET AT   HOW SET	STAT   NOTE   NOTE	Internal   Internal	Interval   Interval	Care   1080		Unit   2377   1080	Marker   1024	INTERVAL   INTERVAL	INTERVAL   NATURAL FLOW   NITE   NITE   NATURAL FLOW   NITE   NITE	INITIAL OIL RECORD INTERVAL IN	Init   Init	Internate   676	Islands	1450*   1462   1462   1450*	NTERVAL   NATURAL FLOW   SHOW   Store   Show   Sh	TILL	IIIIIII	Point   276	Point   276	Howel   44   573   SPUNDED:   JUNE 26, 1978   1978   1979   1977   197	SHOWER   ST3   SPUNDED:   SPUNDED:   JUNE 23, 1977   SPUNDED:   JUNE 24, 1977   SPUNDED:   JUNE 24, 1977   SPUNDED:   JUNE 26, 1977   SPUNDED:   JUNE 26, 1977   SPUNDED:   JUNE 26, 1977   SPUNDED:   JUNE 27, 1977   SPUNDED:   JUNE 27, 1977   SPUNDED:   SPUNDED:   JUNE 27, 1977   SPUNDED:   SPUNDED	Total   Tota	TOP	SUMPRIS GAS CO. TOTAL DEPTH: 1627* BROD STREWATER GAS DEV RIG TYPE: 0PJ ELEV. 573**  ROLEMA RESOURCE CO-ORDINATES: 40-3-31 W SE DIVIDED RESOURCE CO-ORDINATES: 40-3-3 W SE DIVIDED RESOURCE CO-ORDINATES AND TUBING RECORD DIVIDED RESOURCE CO-O

-				1		I		EL		_	10	I A	N									AK			~	_	AN	1		99					_				P	10	U.A			7	Som	GEO	-	77	WELL	COL
				Total Death Sa	PRECAMBRIAN	N N N N N N N N N N N N N N N N N N N	RIVER	BLACK		TRENTON						CATARACT					AMABEL															I		RIVER			HAMILTON	I	PRT. LAMBTON	Drift/L	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	OPER ATOR:	LL NAME:	COUNTY: ELGIN
				Samples 1690 11	2	Circum Cane	Shadow lake	Gull River	KITKTIBIO	Verulam	Cobourg	Collingwood	Meaford - Dundas	Queenston	Whirlpool	Manifoulin	Cabat Hand	Thoroid	Reynales	Irondequoit	Rochester	Gasport	Goat Island	Guelph	evap	A-1 unit corb.	anhy.			B unit salt		in it	Dunit salt		G unit shale	Bass Islands	Bois Blanc	Amherethura	Dundee	Marcellus		Kettle Point		Drift / Lake bottom	Lake/Ground level	10 10 10 10 10 10 10 10 10 10 10 10 10 1	PETROLEUM	CONSUMERS GAS CO.	CONSUMERS	
			REMARKS											1658	1655	1000	1000	1538	1526		1496			2421		1217	1208	1104	1146		3	1074	146	t	Н	730	610	500	370	356	234			00 0		TOP	RESOURCE	GAS CO.	13450 LAKE	TOWNSHIP:
				MOC																																			L						573	ELEV		ς		AKE
				1			CONTO	COMPILION				363	76	LOGGED	Logging	+			8.631	10.75¤	SIZE							2				1530	2				1000	1530	INT		SPL. TRAY No :	ABANDONED:	COMPLETED:	SPUDDED:	CONFIDENTIAL	THICK. LATITUDE:	١, .		99-	
,	-0	700				745	NITI	FD ( )					1-16971	INTER	CO					51.0H		CASING	_					WIEDVAL CTAT			,	2	NTERVAL	il—				15301-16961	NTERVAL	L		ONED:	ETED:	D:	2			EPTH: 1698*	PER	LOT: 99
	PRODUCING INTVL	OIL GAS PRESSURE	FIN	_	_	_	The factor	O I O	CORING RECORD	_	_		GRNL	TYPE LOGGED	MRERGER	OGGING BEC				8 8	SET AT	AND TUBING RECORD						WATER RECORD					NATIRAL RE						NATURAL F			JUNE 30 P		JUNE 25	" _	42-31-25 N	1	RBTD.	MIT No.:	CONC:
	VL.	NIL	FINAL RESULTS				COUED IIAI EVAME	1	OHO					ED INTERVAL		OBD			CEMENTED	GING	HOW SET	GRECORD						-					A PLON ON O					726	FLOW S.I. PR		INDEX No. 985			1977	- 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0	574 + on	4432	
			-		_	_	NEC. MNAL					LATL	CALP	TYPE						88	REC.						7	n					ADI GRAVITY				L	010	PRESSURE		51				-			л •		

		_	OUNT	γ:		Е	L G	ill	4	_		_	Т	OV	/NS	HIF	:	L.	λKI	E	ΕR	I E			_	L	эт:		11	7			CON	ICE	SS	ON	1:		K				_	,	-	AR:	_	19	_	_	To
	200	CODTACAN		CAMBRIAN	RIVER	O BLACK	De	O TRENTON	10	IA	N			CATARACT				T		AMABEL			SII	LUI	RI	AN						_		_		+	77 4 17 7	DETROIT	-		HAMILTON	_	PRT. LAMBTON	Drift/L	Lake/G	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	OPER ATOR:	WELL NAME:	COUNTY: ELGIN
	2 2 3 3 7	AT 0400 OF	AN Mples 1850 ft		Shadow Lake	Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Meaford-Dundas	Queenston	Whirlpool	Manifoulin	Cabot Head	Grimsby	Thoroid	Irondequoir	Rochester	Gasport	Goat Island	Eramosa	Guelph	A-1 unit evap	carb	A-2 unit salt			B unit salt			Dunit salt		F unit shale		Book Bidne	Amherstburg	Lucas	Dundee	Marcellus		Kettle Point		Drift/Lake bottom		455 #	NTACTS:	PETROLEUM RESOURCE	CONSUMERS GAS CO.	CONSUMERS	
	O PANC		MQC:									1806	1801	1790	1736	1606	1607	117.1	1638				1378		1346	12 2 2	1286	1266			1190	9000	1050	277	707	700	200	2	43/	427	322		Ī	93			TOP ELEV	RESOURCE	GAS CO.	Ä	
					CORED INTERVAL	CONDITION				6481-8944	85*-1849*		LOGGING CO.:					10.75#	╀							INTERVAL					NIC	INTERVAL				1		NIC	INTERVAL		SPL. TRAY No	ABANDONED:	COMPLETED:				THICK	CO-ORDINATES		ERIE 117-K	EXIL
PERFORATED	PRESSURE N.				VAL REC. MINE CORED IN ERVAL		CORING RECORD			CALP	49° GRNL 85	INTERVAL TYPE LOGGED INTERVAL	SCHLIMBERGER	LOGGING RECORD	_		CH-OH 4434 CEMENTED	954	SET AT	AND						STAT. LEV.	WATER RECORD				1	1	INITIAL OIL BECORD					_		INITIAL GAS		JUNE	JUNE	JUNE 80	JUNE	81-05-10 W	10-77-00	S: ORG ELEV.	1850*	PERMIT No.:	LOT: 11/ CONC: K
OPEN HOLE	7 21	FINAL RESULTS			NIERVAL KEC ANAL	7	õ			450 *- 1835 * LATL	_	INTERVAL TYPE		RO			1150	NG 93	SET	ECORD				_		3471					3	٦	200	_					W S.I. PRESSURE		No. 972	1977	1977	1977	1978	SEQ: 1		24247010		4422	

9	ds	Tota	90	Ţ		R		_	_	IA	N					_	_	.,,,,		EI		-	LU	RI.	_	_	1	.,						_	Ļ	D	-	/0	NI	AN	T-	Π	YE	Som	_	97 DRIL		000
		Total Depth Sa	PRECAMBRIAN	200	RIVER			TRENTON						CATARACT					AMABEL																	RIVER	DETROIT		HAMILTON		PRT. LAMBTON	Drift/L	Lake/G	Samples start at	GEOLOGY BY:	DRILLING CO:	OPER ATOR:	
	AT BASE	les 1800	Z	01000	Gull River	Coboconk	Kirkfleld	Verulam	Cobourg	Collingwood	Meaford-Dundos	Queenston	Whirlpool	Monitorilia	Grimsby	Thorold	Reynales	irondequoit	Rochester	Gasport	Eramosa	Guelph	A-1 unit evap		W.C IIII 2.W			B unit salt		Snit	Dunit sall			Islan	Bois Blanc	Amherstburg	Lucas	Dundee	Morgellus	Kettle Point		Drift/Lake bottom	Lake/Ground level	454	PETROLEUM	UNDERWATE	CONSUMERS	CONCLINED
9	OF BOIS BL	ft.	1	+							8	1744	1738	17000	1631	1625	1612		1580			1330		+	1294	+	1228	Н	'ker 1184	+	+	1007	Ť	804	718	624		400	474	045		89		#	RESOURCE		GAS CO.	4400
i	BLANC	MQC: 7	+																																			1					573	ELEV. LAICY.	7		24.00	1402 47
			1	1	CORED INTERVAL	CONDITION			U	4449-18	80*-1805*		LOGGING CO.:	-		_	8.63H 2	-	SIZE W		L		Ш		IN TANK	NAC DAY				21	INTERVAL				П	6661	1615*-1805	INTERVAL	SPL. TRAY No.	ABANDONED	COMPLETED:	SPUDDED:	CONFIDENTIAL	LONGITUDE:	٦,	RIG TYPE:	TOTAL DEPTH:	0
GAS PRESSURE PRODUCING	OIL			_	REC.	STORED	CORING RECORD				GRNL	INTERVAL TYPE LOC	SCHLIMBERGER	OGGING		_	4444	89.	SET A	CASING AND TU	_				SIMI. LEV.	WATER RECORD		_	_	1	NATURAL FLOW			_				NATURAL FLOW			JUNE		JUNE	80-58-10		ORJ ELEV.	1805* PATO	CONC.
NIC	FINAL RESULTS				ANAL CORED INTERVAL	ED	RECORD			44A - 1792 ·	80 -1805	LOGGED INTERVAL	70	7000			CEMENTED	HANGING	T HOW SET	BING RECORD					TLOW	-					FIOW AP	7000					8	2	L	77			16, 1978	¥ SEO:		V. 573+25	TD. 4-2-3	1110
	S				REC. ANAL					LATL		TYPE		-				891	REC.						1770						GRAVITY						O PSIG	PRESSURE	586	4				1		5		

_		-	UNT	ry:		_	_	G I	-	CI A		-	Т	OW	NSF	IIP:	:	LA	ΚE	Е	RI	-		RI.		DT:		11	9		CO	NCE	SSI	ON:		Q	-	NI.				, ,	AR:		_	77	
	SPRINGVALE	Total Depth Sc		CAMBRIAN	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	BLACK	T	752702			7			CATARACT					AMABEL			51		RI.	AN						_					DETROIT		HAMILTON	T	PRT. L	Drift/L	Lake/C	Samples start at	GEOLOGICAL CONTACTS	DRILLING CO:	D	WELL NAME:
	AT BASE OF	Samples Loru ft			Shadow Lake	Gull River	2000	Kirkelala	Cobourg	Collingwood	Meaford Dundas	Queenston	Whirlpool	Manifoulin	Grimsby	Thoroid	Reynales	Irondequoit	Rochester	Gasport	Goat Island	Guelph	A duni erap	carb	A-2 unit sall			B unit salt	C unit shale			F unit shale	Bass Islands	Bois Blanc	Amherstburg	Lucas	Dundee	Morcellus	Keffle Point		Drift/Lake bottom		440 ft	PEINOLEUM RESOUNCE			CONSUMERS
	BOIS BLANC	REMARKS										1843	1838	1828	1770	1724	1710		1674			1413		1388	1678	1316	1310		1234		1112	1032	895	822	703	-	564	556	120	3	114	41	-	TOP	GAS DEV	SAS CC	13402 LAKE
	INC	MQC: /															-																									573		FI FV THICK			ERIE
					NIL	CORED INTERVAL	CONTINUE		1	428*-1874*	428*-187	LOGGED INTE	LOGGING CO.:	1	_	_		10.75m 51		0				1	INTERVAL				NIC	INTERVAL						1715*-1872*	INTERVAL	SPL. TRAY No.:	ABANDONED:	COMPLETED:	SPUDDED:	CONFIDENTIAL:	LONGITUDE:	CO-ORDINALES	RIG TYPE:	AL DEPTH:	119-0
PERFORATED	OIL N GAS N PRESSURE	-				REC	STORED AL	COBING BECORD		DENL DENL	GRNL	INTERVAL TYPE LOI	SCHLIMBERGI	LOGGING		_	4291	1140		CASING AND TO		_			SIAI. LEV.	WATER RECORD				NATURAL	INITIAL OIL					121	NATURAL FLOW	1	JUNE	JUNE	JUNE	-	90-59-35	-1.	ORJ	•	PERMIT No.
ED: OPEN HOLE		FINAL RESULTS				ED INTERVAL	100.00	250000		440*-1861*	428 -1874	LOGGED INTERVAL	70	RECORD			CEMENTED	HANGING	HOW SET	AND TUBING RECORD					FLOW					L FLOW API	RECORD					40	2	NDEX No. 982	77	11,	7.	11, 1977	W SEQ:	2	EV. 573+45	Ö	4426
n		6				REC ANAL		1		LATL		- TYPE		-				114	REC						TAPE					GRAVITY						2 561C	PRESSURE	32				,	-		Ç,		

SPI	-	1	000		c	R	_	_	CI	AN	,	I		0			_				_	s	ILI	UR	IA	N									L		-	70	NI	AN	-	I		Some	GEOL	GEO	OPE	WELL	000
SPRINGVALE	Carrie Carrie	on Death Comp	AMBRIAN		RIVER	B ACK		TRENTON						CATARACT					AMAGEL	3																RIVER	DETROIT		HAMILTON		TRI. LAMBION	Drift/L	Lake/G	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	OPER ATOR:	L NAME:	
AT BASE	9	1842	2	Shadow Lake	Gull River	Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Manfard Dunk	The state of	Whistoon	Cabot Head	Grimsby	Thorold	Reynales	Irondequoit	Rochester	Gasport	Goat Island	Framoso	1	A-1 unit carb		A-2 unit sall		B unit salt		C unit	D unit sall	E unit carb	Gunit shale	Bass Islands	Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus	Nerrie Point		Drift / Lake bottom	Lake/Ground level	431 ft	NTACTS:	PETROLEUM	CONSUMERS GAS CO	CONS	
OF BOIS BLANC	REMARKS	-								0	2004	1000	76.7	1734	1686	1681	1670		1638		1	100	+	0 1350		+	4/2T	+	marker 1234	9	+	1000		860	788	673		350	ייי מיי	167		110	42	Ī	100	M RESOURCE	S GAS CO.	5 13405 LAKE	CWINGTON . CONT.
NC	2 4 0 - 1	MOC: 7																																					1			-	573		ELEV THICK.			E ERIE 120-Y	İ
				NIC	CORED INTERVAL	CONDITION				421 - 1842	•	LOGGED WITE						п	SIZE WE	70			_	560*	1190*	INTERVAL				NIC	INTERVAL			-	1675*-1696	1290*	560 9	INTERVAL	SPL. IRAT NO.	ABANDONED	COMPLE EC.	SPUDDED:	CONFIDENTIAL:	LONGITUDE:	LATITUDE:	CO-ORDINATES:	AL DEPTH:		
OIL GAS PRESSURE PRODUCING	-				REC.	STORED	CORING RECORD			DENE	1001	NITEBYAL TYBE	LOGGING				4211	1091	SET A	CASING AND TU			_			STAT. LEV.	EATED				NATURAL	INITIAL OIL BECORD			_		MOHS	NATURAL FLOW	DAZE CAR	JUNE					42-25-50	CRU ELEV.	•	PERMIT No.:	LOT. TOO CONC.
N Z Z	FINAL RESULTS				ANAL CORED INTERVAL	ED	RECORD		1	438°-1829	0000	ער ביייייייייייייייייייייייייייייייייייי	RECORD				CEMENTED	വി	HOW SET	TUBING RECORD			_	SHOW	٤	FLOW	7000				7	BECORD				W	-	S	П	1	1161 400		1977	0	Z	V. 5/3**42		6211	
	TS				REC ANAL					OF LATE	1	700		-				109	REC					SULPHUR	ULPHUR	TYPE					API GRAVITY				324 PSIG			PRESSURE	980	3				EQ: 1		. 244			

CONSUMERS 13407 LAKE ERIE LOT 12:  CONSUMERS GAS CO. TOTAL DEPTH: 177;  UNDERWATER GAS DEV CO-ORDINATES: OR PLANDATES: VAPE GAS DEV CO-ORDINATES: VAPE GAS D	1		_	UN1	ry:	Е	LG	-	_	-			Т	OW	NSF	(IP:		L A	ΚE	E	RI			21.4		T:	12	1		_	CON	ICES	SSIC	N:	_					Т	_	AR		97 o c		<b>¥</b>	C
CONSUMERS 1397 LAKE ERIE  CONSUMERS 1497 LAKE ERIE  LOTA LOPIN PERMIT NO:  WATERNATER 6AS DEV PERMIT NO:  WATERNATER 6AS DEV PERMIT NO:  WATERNATES  W		SPRINGVALE GAS ANALYS		PRECAMBRI	CAMBRIAN	RIVER					AN			CATARACT					AMABEL			SI	LU	HI A	N.						_				_	-		-	_	PRT LAMBTON	Lake/G	amples start at	EOLOGICAL CC	GEOLOGY BY:		ELL NAME:	OUNTY: ELGI
RAKE ERIE 121-K ERIE 121-K ERIE 121-K TOTAL DEPTH: 1771* PREMIT No. 1442 TOTAL DEPTH: 1771* PREMIT No. 1686*  RIG TYPE: CO-ORDINATES: 42-27-20 W CO-ORDINATES: 42-27-20 W CONFIDENTIAL: AUGUST 13, 1977 SPUDDED: 10-171* AUGUST 13, 1977 INTERVAL INTIAL OIL RECORD INTERVAL STAT. LEV FLOW NIL NATURAL FLOW		T BASE OF ON FILE	14 00/T			Shadow Lake	Gull River	Kirkfield	Verulam	Cobourg	Meaford Dundas	Queenston	Whirlpool	Manitoulin	Cobot Hand	Thorold	Reynoles	Irondequoit	Rochester	Gasport	Eramosa				unit		B unit		C unit			G unit shale	Bass Islands	Bois Blanc	Amherathura	Dundee	Marcellus		- 5	dre porrom	round level	87		PETROLEUM F	CONSUMERS	CONSUMERS 1	
TOTAL DEPTH 1711 PBTO 1686*  TOTAL DEPTH 1771* PBTO 1686*  RIG TYPE: 42-27-20 W 109-13-13 W 109-15-31												1719	1714	1700	1614	1584	1572		1536			1280		1252		1200		1158	1128		1002	896	765	740	602	469	457	376		26	UT		TOP ELEV	RESOURCE	SAS CO.	13407 LAKE	5
	PERFORATEDYES OPEN HOLE	SSURE 779				- 1	- 1			O NO F	OFZE	INTERVAL TYPE LO	SCHLUMBERG		40/CI #1.04	11.6# 1721*	24.0# 4770	51.0# 92. HANGING	WEIGHT							WATER RECORD				NATURAL FLOW	INITIAL OIL RECORD				SHOW CEVIL	NATURAL FLOW	Ш	2364 INDEX No.		JULY 13.	HAL: AUGUST 13,	80-45-31 W	LATITUDE: 42-27-20	ORDINATES: ON ELEV.	DEPTH: 1771* RB.T.D.	IE 121-K PERMIT No.:	EXTE

H		TH	T	TY:	г	ELI	_	_	~	CLA	. Bil	7		-	1011	IP:		AK	E	1.1	RIE	-	UF	91.7	LO	-	-	55	_	_	CON	GE.	3310		_	= 1/		AIR	B.I	Т	_	AR V2	_	19 ຄຸເ	_	8	C
D.S.T (S) ON	GAS ANALYSIS	otal Depth S	RECAMB	CAMBRIAN	21.4	_	T	1201014	_					CATARACT	_			-	AMABEL			311	-01	11.6											RIVER	.1	-	HAMILTON	_	PRT LAMBTON	Lake/0	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	OPER ATOR:	WELL NAME:	COUNTY: ELGIN
n = n	SIS ON FILE	Samples 1932 ft	200		Shadow Lake	Gull River	Coboconk	Kirkfield	Verulam	Collingwood	Meaford-Dundas	Queenston	Whirlpool	Capor nega	Grimsby	Thoroid	Reynales	irondequoit	Rochester	Goat Island	Eramosa	Gueiph	A-1 unit evop	anhy	A-2 unit salt	carb	g unit		C unit		E unit carb		Islan	Bois Blanc	Amherstburg	Dundee	Morcellus		Kettle Point	MBTON LOKE DOTTOM	Lake/Ground level	4 084		PETROLEUM	CONSUMERS	CONSUMERS	
		RTMARKS										1918	1014	1020	1776	1770	1757		1712			1362	1000	1346		1308	1000		1200		1078	982	884	839	760	200	644	474	325	4.6	24		TOP	RESOURCE	GAS CO.	13413 LAKE	CWNGALL
		MQC:	L																																						573		ELEV.	gri ∢	<	AKE ERIE	17
																																										-	THICK.	0.7	n -4	155	14
					NIL	CORED INTERVAL	CONDITION		. HORI DOGT	470*-1951*	80,-1951,		LOGGING CO.	_	2.38¤		8.63m 2	4							INTERVAL				NIL	INTERVAL		1760*-19	• •	13700	750*	INTERVAL		SPL. TRAY No.:	ABANDONED:	COMPLETED:	CONFIDENTIAL	LONGITUDE:	LATITUDE:	CO-ORDINATES:		0	
PE PE	OIL GAS PRE	-	_			AL REC.		,			51 ° G	INTERVAL TYPE	CCUI				24.0#	-	WEIGHT	1	_	_	_	_		*					NITIAL	1950*				ľ	INITIAL	.: 2588								PERMIT	
PERFORATED YES	SSURE	-				ANAL C	STORED	CORING RECORD	I I	CALP	RNL	TYPE	LOGGING		1734 1			- 1	SET AT						STAT. LEV. FLOW	ATER A				URA	9	145	:		MOHS	NATURAL	11		0	ALIGUST JUNE	SEPTEMBER	3-40 1	1-40	ברבי.		AIT No.:	CONC:
DYES OPEN HOLE	145 707		_	_		ANAL CORED INTERVAL	ED	RECORD		470*-1938	80 *-1951 *	LOGGED INTERVAL	20000		ANGING	CEMENTED	EMENTED	a l	HOW SET	20000						ECORD				FLOW	RECORD	MCF/D 707	i 		¥	FLOW	RECORD			v č	of .	>	2	V. 070.724.	187		9
E	MCF/D PSIG 1774 1822*	-				REC ANAL		-		LATL		L TYPE		-	91	931		10	25						TYPE					API GRAVITY		7 PSIG				S.I. PRESSURE		990				2: 1			9 22		

		_	OUN	ry:		EL	G I	N					1	0	WNS	SHII	>;	L	٩K	Ε	ΕR	11				LC	т:	_	15	8		С	ON	CES	SSIC	N:	A						_		_	$\overline{}$	_	97	_	_	Ţ.
	Æ A			0		C	R	_	_	CIA	N	_	L	_	_			-		_	_	_	SII	U	RI/	A N			_		_	_				L		DE	V	-		_	-			Samp	GEOL	GEO	OPE	WELL	0000
	WATER ANALYSIS		PRECAMBRIAN	CAMBRIAN					TREVION					3	200					AMABEL																	RIVER	DETROIT		1	TON.		PRT. LAMBTON	Drift/L	Lake/G	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	OPER ATOR:	L NAME:	411
	YSIS ON FILE		AN 1880		Shadow Lake	Gull River	Coboconk	Kirkfield	Verulam	Collingwood	Meaford Dundas	Queenston	Whirlpool	Manitoulin	Cabot Head	Grimsby	Thorold	Revocies	Rochester	Gasport	Goat Island	Eramosa	Guelph	A-1 unit		A-2 unit sc	22		B unit	0			unit		Bass Islands	Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus		Kettle Point		Drift/Lake bottom	Lake/Ground level	450	NTACTS:	PETROLEUM RESOURCE	CONSUMERS GAS CO.	CONSUMERS	
	TLE	H	1		ê						das	L				1	1	1	1	ļ	Ľ			ечар	carb	sall	carb.	anhy.	salt	marker	shale	caro	Shale	hale			Ĺ		L	L						) ft.		M R	ເຮັ	S	
		REMARKS										1858	1855	1842	1778	1730	1728	1716	7997	200			1350	0000	NE E	4 4 4	1290	1270	100	1228	1194	10/4	166	896	857	829	670		569	558	382	362		115	43		TOP	ESOURC	AS CO.	13404 L	-
קיי	GAS PRE		Moc: 7			ERVAL RE	CONDITION	CO		1400-1034 DE		LOGGED INTERVAL T	LOGGING CO .: SCHLUMPERG	L00		4.74	#	01	WEIGHT	CASING						INTERVAL STAT.					1	INIT					1715*-1880*	1375*	H	INITIAL	SPL. TRAY No.: 3004	ABANDONED:	COMPLETED:	SPUDDED:	AL:		- 1	CO-ORDINATES:	AL DEPTH: 1	LAKE ERIE 158-A PERM	
BEDEORATED VEC OBEN HOLE	OIL NIL  GAS 306 MCF/D  PRESSURE 791 PSIG  PRODUCING INTVL. 1730*-1748*	FINAL RESULTS				ANAL CORED INTERVAL REC ANAL	STORED	DRING RECORD	i i	DENE 450 - 18/2 LAIL	120*-1884*	LOGGED INTERVAL	ER	LOGGING RECORD	0	_	TAR COMENTED 114	115 HANGING 115	AT HOW SEL	O TOBING RECORD		_			_	LEV. FLOW TYPE	WATER RECORD				ATT GRAVET	OIL RECORD					306 MCF/D 791 PSIG			GAS RECORD	INDEX No. 973		4 0	JUNE 1, 1977	4 . 1977		-28 N	ELEV. 0/3**43*		PERMIT No.: 4428	CORC

WELL NAME: CONSUMENS GAS CO.* EPET 1580 DEPAY CONSUMENT NAME: CONSUMENS GAS CO.* EPET 1580 DEPAY CONSUMENT NAME CO.* CONSUMENT				JUN	TY	T	_	L G		_	_	_	_	_	-	TC	WI	VSI-	IIP	: 	L	Α!	KE	Е	R	_	_		_	_01	:	1 !	58	_	_		ONC	CES	SIC	ON:		D	_	_		_	-		_	AR	_	97	_	<	lo.
ONSUMERS 1343 LAKE ERIE 158-D   LOT: 158 ONC: DEPTH: 1900   LOT: 100NC)   LOT: 100NC		SPRINGVALE GAS ANALYS WATER ANAL	oral pepin o	100	CAMORIAN		-	-	100	-	_	CI	AA				CATARACT						AMABEL			SI	LU	RI	AI	<u> </u>			-	_	_	_					_	_	V		_	-	PRT. LAMBTOR	Drift/	Lake/	Samples start at	EOLOGICAL C	SHILLING CO.	OPER ATOR:	WELL NAME:	COUNTY: ELG.
RE EPTE 158-D  RE EPTE 158-D  RIG TYPE: TOTAL DEPTH: 1900* PERMIT No.: TOPE  RIG TYPE: OPA ELEV. 573**  CONFIDENTIAL: JULY 5, 1977  SPUDDED: 42-4-05 N  CONFIDENTIAL: JULY 15, 1977  SPUDDED: INTERVAL INTIAL GAS RECORD  INTERVAL INTERVAL INTIAL OIL RECORD  INTERVAL INTERVAL INTERVAL FLOW S.I.  1302*-1626*  VAIL  CASING AND TUBING RECORD  LOGGING CO.: SCH UMBERGER  L		AT BASE OF THE TOTAL TOT				OUGGOW CONG	2000	Coboconk	NITKTIGIO	Veruium	Vocalo	Carrie	Collingwood	A CONTRACTOR	Whiripool	Manifoulin	Capor Head	Grimsby	Thorold	Reynales	Irondequoit	Rochester	Gasport	Goat Island	Eramosa	Guelph	25.1					B unit		C unit			F unit shale	Gunit shale	Bass Islands	Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus		_		Lake bottom		<b>82</b> t	ONTACTS:			ONSUMERS	
LOT: 1-56 CONC: D 4427  L DEPH: 1900* PATD. 4427  TYPE: 1900* PATD. 573**  PRITIUDE: 80-58-52 W SEIDENTIAL: JULY 5, 1977  JUNE 12, 1977  JUNE 12, 1977  JUNE 12, 1977  JUNE 15, 1977  JUNE 12, 1970  INTERVAL NATURAL FLOW SEIT  NATER RECORD  INTERVAL STATLLEV, FLOW SEIT  STOR 11, 64 1869 CEMENTED  SODH 11, 67 1900*  GEN L JUNEROGE D INTERVAL  105**-1900*  DENL 148*-CEMENTED  SODH 11, 67 1900*  DENL 148*-CEMENTED  SODH 11, 68 1869 CEMENTED  SODH 11, 68 1860 C		5108	REMARKS	-								+		1000	1920	1840	1781	1739	1733	1720		1687				1302		1286	1279	PPC	2224	2	1	t	t	1019	H	t	794	762	622		500	492	146			i	42		10P E	RESOURCE	GAS CO.	15405 LAK	OWNSHIP:
LOT: 1-36 CONC: U 4427  L DEFH: 1900* PATO ITUDE: 1900* PATO INTERVAL INTIRAL ASS RECORD INTERVAL INTIRAL FLOW SI. 300*=1340* 183 MCF/D 87  NIERVAL INTIRAL FLOW AP  NIERVAL AND TUBING RECORD  NIERVAL TYPE LOGGED INTERVAL AS ARCOMBLE  ON AND TUBING RECORD  NIERVAL TYPE LOGGED INTERVAL AS ARCOMBLE  ON AND TUBING RECORD  NIERVAL RECURSION AND TORRESULT  NIERVAL RECURSION AND TORRESULT  NIERVAL RECURSION AND TORRESULT  NIERVAL RECURSION AND TORRESULT  NIERVAL RECORD  NIERVAL RECORD  NIERVAL RECORD  NIERVAL RECORD  NIERVAL RE		NC	4	000		-						1																												I							I		573					ERIE	LAKE ERIE
DE CONC: U 4427  DO CONC: U 4427  DENU 12, 1977  JUNE 15, 1977  JUNE 16, 1977  JUNE 17, 1977  JUNE 17, 1977  JUNE 18, 1977  JUNE 19, 1977  JUN				_		2 1	CORED INTERVAL	CONDITION			. MCOT ZGCT	170000000000000000000000000000000000000	10001-10001	•{	١٠			_	-		-	╫	1		_			1	13021-16261	INTERVAL		1	1_	NIL							17251-17851	1300*-1340*		_		ABANDONED:	COMPLETED:	SPUDDED:	- 1	LONGITUDE:	LATITUDE:		TOTAL DEPTH: 19		
573*+ 1977 1977 1977 1977 1977 1977 1977 197	PERFORATE	SSURE	7		_			1	CORING	-				1	HLUMBERGE	LOGGING R		1715	1869	4184	1110	SET AT	GAND							STAT I EV	EAT				NATURAL	VITIAL OIL I						112	NATURAL	NITIAL GAS	2647 11		JUNE	JUNE	-		- 1		00 PB.T.	ERMIT No.:	DA CONC:
978 978 978 1. PRESSURE 94 PSIG 25 PSIG 25 PSIG 1110 1110 1110 1110 1110 1110 1110 11		000	INAL RESUL				KEUINIEKVAL		ECORD			DAT 044	1001=100	מסכום וויינויים	Z NATED A	ECORD		ANGING	EMENTED	EMENTED	ANGING	HOW SET	ING RECOR							E OW		_	_	_				_		_		- 1		-					5, 1977						
	IOLE		TS											1	1			108	1100		111*	REC.	-					1	ULPHUR	TYPE															978					EQ: 1		747			
		SPRINGV GAS ANA WATER A	TOTAL Dept	PRECAN	CAMBR			O F	2 D	01	/10	21.	AN		T											SI	ĽU	RI	AP	ı											C	)E	VC	) N	IA	N			1	San	GEOL OGIC!	GEOLOGY	OPER ATOR	WELL	COUNTY

_		COL	JNT	Υ:		_ G		_			_	T	OW	NSI	HP.	:	L	ΑK	E	ER	1 E		_	-1	_OT	:	15	9		C	ONC	ES	SIOI	N:	С				_	_	YE	_	_	197	_	
	GA SPI	Total	9	0		R	_	VIC	A IS	N	$\perp$		_		_	_	_			_	s	ILL	RI	AI	V							_	_	_	DE	· V	ON	_				Samp	3EOI	SEO	OPE	WELL
	SPRINGVALE AT B GAS ANALYSIS ON WATER ANALYSIS	Depth	PRECAMBRIAN	AMBRIAN		BL ACK		TRANTON					CATARACT					AMABEL	200																BIVER		HAMILION			PRT LAMBTON	Lake/Ground	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:		WELL NAME:
	ASE OF	les 1880 ft	PZ		Shadow Lake	Coboconk	Kirkfield	Verulam	Collingwood	Meaford-Dundas	Queenston	Whirlpool	Manitoulin	Coho: Hand	Thorold	Reynales	Irondequoit	Rochester	Gasport	Goat Island	Guelph	evap	A-1 unit corb.	1	A-2 unit sall		B unit salt		C unit shale	E unit carb.	F unit shale	G unit shale	Bass Islands	Bois Blanc	Lucas	Dundee	Marcellus		Kettle Point	MBTON LUNE DOLLOW	round level	481 ft		PETROLEUM F	CONSUMERS GAS CO.	CONSUMERS 1
	BOIS BLANC	MQC:									1842	1638	1824	1768	1/10	1702		1670			0407	4 7 6 6	1323	1318	41.74	1256		1210	1176	1050	896	246	812	706	500	544	432	295		74	22 573		TOP ELEV	RESOURCE		
		c: 7				CONDITION		276	864*-1875	92 -	LOGGED IN	LOGGING CC	600	100 o to	7.000	9.63#	10.75¤	SIZE		1					INTERVAL				NI.	INTERVAL			1708*-1750	13021-	710	INTERVAL		SPL. TRAY No.	ABANDONED	COMPLETED:	T	LONGITUDE:	THICK.	CO-ORDINATES:	101	IE 159-C
PERFORATEDYES	OIL GAS PRESSURE PRODUCING IN				REC.		CORING RE	OT-DW	DENE	GRNL	AL TYPE	HMRFRG	LOGGING	11.67 182/V CE	1984 e	481	91.	SET A	CASING AND TUBI						VAL STAT LEV FLOW	WATER OF			3	INITIAL OIL		_	1750" 486 MCF	34 (37)	SHOW	AL NAT	INITIAL	2937		- LINE	JUNE	81-02-47 V	42	res: OKU ELEV.	1880*	Z O
YES OPEN HOLE	NIL RESULTS NIL 486 MCF/D 806 PSIG NTVL. 1716*-1736			-	ANAL CORED INTERVAL REC ANAL		RECORD		874 -1862 LATL		LOGGED INTERVAL TYPE		RECORD	MENTED 90	_	CEMENTED		HOW SET REC	TUBING RECORD					+	TYPE	COR.			1	RECORD API GRAVITY			CF/D   806 PSIG	241 00		FLOW S.I. PRESSURE		NDEX No. 979		23, 1977	23, 1978	\$		5/3*422*		4510

UNITY: ELOIN			11	_	NTY	T	EL	_	N	ov.	10	l A	N	1	T	1WC	ISHI	P:	L	ΑK	E	ΕR	I E	SI	LUF	21		)T:	1	59		_	0	ONC	ESS	101	<b>4</b> :	DE	· v	_	II A	N	1	<u>`</u>	$\overline{}$	_	197		<b>≥</b>	CO
TOWNSHIP: LAKE ERIE 159=C PERMIT NO. PRIOR CONC. C PERMIT NO. PRIOR CONC. P		FRINGVALE	TNOVA	Depth	PRECAMBRI	-				7						CATARACT					AMABEL																214 62	DETROIT			HAMILTON		PRT. LAMBTON	Drift/L	Lake/G	OLOGICAL CC	OLOGY BY:	ELING CO.		
WANSHIP: LAKE ERIE 159-CONC. C 13399 LAKE ERIE 159-C PERMIT NO. C 13399 LAKE ERIE 159-C PERMIT NO. C PERMIT N		> C	AT DACE	9 8	2		Gull River	Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Meaford Dunda	Queenston	Whirlpool	Cabot Head	Grimsby	Thorold	Reynales	Irondequoit	Rochester	Goat Island	Eramosa	Guelph		200	unit			B unit	0		unit	unit	G unit sha	Bass Islands	Bois Blone	Lucas	Dundee	Marcellus				ake bottom	round level	UNIAC IS:	PETROLEUM	UNDERWATE	CONSUMERS	Z
RAKE ERIE  RAKE ERIE  RIG TYPE  RIG TYPE  RIG TYPE  RIG TYPE  RIG TYPE  ROONED	2108	REMAR	77									8												00			6.	y.		'ker		0.		1	815	710	500	450	435	297			90		$\dagger$	RESOURCE	R GAS DE	SACCT SACCT	MNSHI	
TOTAL DETH! 1000" PRIONC: C PERMIT NO.  PIG TYPE: OR J ELEV.  CO-PODINATES: 0R J ELEV.  CO-PODINATES: 0R J ELEV.  CO-PODINATES: 0R J ELEV.  CONFIDENTIAL: JUNE 4, 1 SPUDDED: JUNE 4, 1 S		ANC	일 [	MQC: 7	+	+	-								-						-												+			1	-								573	-				AKE
3777 SEQ: 778 SEQ: 778 SEQ: 777 SEQ: 777 SEQ: 777 SEQ: 777 SULPHERVAL SET TYP SULPHERVAL RESULTS SET 786 FILES SULTS SET 786 F	DEBEODATED YES OBEN HOLE	SSURE 347					INTERVAL	ION				DFNL 440*-	GRNL 90 -	INTER	CO. SCHLIMBERG		4.78 7019	11.6# 9981	24.0# 430*	51.0# 94 HANGING	WEIGHT	1					A14 *					7100					_	PT/	VAL		TRAY No.:		JUNE 4.	JUNE 1.	JUNE 4.	LONGITUDE: 81-02-45	CO-ORDINATES:	ORU ELEV. 5	PERMIT No.:	LOT: 159 CONC: C

		CC	NN.	TY:	ı	EL	GΙ	N					TO	lwc	NSH	IP:	L	A ł	ΚE	Ε	RI	E			LO	τ:	160	0			CON	ICE:	SSIC	N:	1						,	YE,	AR:	-	977	_	_
		Total L	PRE	CAM	7	-	_	_	/10	IA	N	+		CAT	_	Г	٦	_	MA		Τ	SI	LU	RI /	A N							_	Τ			_	/°	NI/	N	PRT.		Lake	Samples	GEOLOGICAL CO	DRILLING CO:		WELL
		Depth So	-100	CAMBRIAN	7	BLACK		XEN CN						CATARACT					AMABEL																RIVER	TROIT		HAMILTON		PRT. LAMBTON	Drift/L	Lake/G	stort of	SICAL CO	3	TOR:	WELL NAME:
		Samples 4700 TI			Shadow Lake	Gull River	Coboconk	Kirkfield	Cobourg	Collingwood	Meaford Dundas	Ousenston	Whiteleast	Capor Head	Grimsby	Thorold	Reynales	Irondequoit	Rochester	Gasport	Eramosa	Guelph	A-1 unit evap.	carb	A-2 unit salt		S B unit SO/7		C unit			Funit shale		Bois Blanc	Amherstburg	Lucas	Dundee	No.	Kettle Point		Drift/Lake bottom	ake/Ground level	Samples start at 490 ft.	10		CONSUMERS	CONSUMERS
		REMARKS	-									1930	020	1000	1814	1805	1792		1756			1348		1329	3	1282	1264	Т	1185		1066	903	818	798	742		566	22.0	261		96	25 5	H	TOP EL	RESOURCE	GAS CO.	13400 LAKE
		3400			NIL	CORED INTERVAL	CONDITION		1170*-1476	478*-1953*		LOGGED INTER	DOGENIA CO.		_		8.63m 24.0#	-+	킈	CA	1				INTERVAL				1330*-1380*	INTERVAL					1800*-1840*	1330*-1380*	INTERVAL	SPL. TRAY No.:	ABANDONED:	COMPLETED:		73		EV THICK LATITUDE:	RIG TYPE:	TOTAL DEPTH:	ERIE 160-I
PERFORATEDYES OPEN HOLE	920	FINAL RESULTS				REC. /	STORED	CORING RECORD		DENL 500	GRNL	INTERVAL TYPE LOGGED INTERVAL	CONTRACTOR OF COMP		4.7# 1323 HANGING		4771	96 HANGIN		CASING AND TUBING RECORD					STAT. LEV. FLOW	D			MOHS	TURAL FLOW	INITIAL OIL RECORD				15 MCF/D	918 MCF/D	-	INDEX No.		29,	MAY 24. 1977	7 29, 1978		N 72-50-54	ORJ ELEV. 573*+25	* RB.T.D. 147	PERMIT No: 4424
HOLE	MCF/D PSIG 1343*-1356*	LTS				REC ANAL		-		11V CALL	2	VAL TYPE		-	9	95		_	REC	õ					TYPE					API GRAVITY					408 PSIG	95 PSI	S.I. PRESSURE	696					SEQ:		+25ª		

			7	NT.	T		0	-	-	VI	C	Α	N					SHI	_		Α.					SI	LU	RI	AI	v		16	_	_						N:	D	-	/0	N	IAI	_	I	Ť	Sum	GEO		97 DRIL		000
			Denth	PRECAMBRIAN	CAMBRIAN	-	BLACK	- 1		TRENTON						CATARACT						1	AMABEL																		RIVER	DETROIT		HAMILTON			PRT I AMRTON	Drift/	Samples start at	GEOLOGICAL CONTACTS	GEOLOGY BY:	DRILLING CO:	WELL NAME.	
			1980	2		Shadow Lake	Gull River	Cobocook	Kirkfield	Verulam	Cobourg	Collingwood	Meaford Dundas	Queenston	Whirlpool	Manitoulin	Cabot Head	Grimsby	Thoroid	Reynales	Irondequoit	Rochester	Gasport	Goat Island	Eramosa	Gueiph	A-1 unit evap			COND COND		B unit	in marke	C unit shale	D unit salt	_	F unit shale	G unit shale	Bass Islands	Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus		Kettle Point	MRTON CORD	ate hottom	_	77	LEUM	UNDERWATER GAS DE	CONSUMERS	COMPLINED
		REMARKS	-					1						1946	1941	1930	1840	1826	1817	1806		1769				1368	-	+	1340	-	2821	H	é	e 1184		_		962	842	804	743		586	576	410	252	1	96	25	TOP	RESOURCE	R GAS DEV	GAS CO.	1 44454 1 445
		S	MOC: 7				+																															I				+			1		+	c	573	ELEV THICK				2010
PERFORATED YES	OIL GAS PRESSURE PRODUCING		_			NTI I	BEC			_	4631-1982 SONL	_	83 -1983 GRNL	INTE	LOGGING CO.: SCHLIMBER	LOGGING	_	4.7#	11.6#	24.0# 4	10.75m 51.0m 96*	SIZE WEIGHT SET AT	CASING AND T							INTERVAL CTAT I FV				NIC	INTERVAL NATURAL	INITIAL OI					1380*-1410* 37709	-	INTERVAL NATUR	INITI	SPL TRAY No. 3003		ם י	SPUDDED: JUNE	0-10	1.	CO-ORDINATES:		1083°	FO1. 200 CO
TED YES OBEN HOLS	NTVL.	FINAL RESULTS					D INTERVAL DEC	STORED	CORING RECORD		7951-19821 DIPM	464 1970 LATL	831-19831 CALP	LOGGED INTERVAL TYPE	GER	RECORD		HANGING	CEMENTED	CEMENTED		HOW SET REC.	TUBING RECORD							WATER RECORD					AL FLOW API GRAVITY	INITIAL OIL RECORD				4	9 MCF/D 540 PSIG	200	NATURAL FLOW SI PRESSURE	1	INDEX No. 974	1	000	F 18. 1977	V V	2		ELEV. 573*+25*	1500	8

		_		TY:		ELO	_					_	TC	WN	SHI	P:	L	Αŀ	Έ	Eł	RI	E			L	or:	1	82	:		cc	ONC	ESS	101	V:		X				_	١	-	R:	_	97	_	: 14
		Contract Con		CAMBRIAN	7	_	RD	TRENTON		IAI	9		_	CATARACT					AMABEL		T	SI	LU	RI	AN						_		1		24 62	DETROIT		ON	_	_	PRT. LAMBTON	Drift/Lake	Somples stort at	SEULOGICAL CONTACTS:	GEOLOGY BY:	DRILLING CO:	OPER ATOR:	- 1
		- 1	AN 2145		Shadow Lake	Gull River	7.7.7.00	Verulam	Cobourg	Collingwood	Menford: Dundos	Whiripool	Manitoulin	Cabot Head	Grimsby	Thorold	Reynales	Irondequoit	Rochester	Goenort Island	Eramosa	Guelph	A-I unii evap.		A-2 unit sall			B unit salt	G Unit Snake		E unit carb.		G unit shale	Bass Islands	Amnerstourg	Lucas	Dundee	Marcellus		Kettle Point		Drift/Lake bottom	round level	980	PETROLEUM RESOURCE	UNDERWATER GAS DEV	CONSUMERS	CONSTINERS
		REMARKS									0350	4112	2093	2029	1990	1985	1968		1074			1506		1496	1496	1446	1429	Т	מאנו	9 200	1192	1117	1099	975	240	2112	726		364	276		96	v	100	RESOURCE	GAS DEV	GAS CO.	13393 17
			MOC: 7								;				I					+									-					-									574	ELEV THICK		_	1	AKE FRIE 18
					NIC	CORED INTERVAL	CONDITION			8379-21449	9	LOGGING CO.: 5					9.634 36.04	_	SIZE WEIGHT	CAA	1	1			10644				NIC	INIERVAL					1	1970*-2145*	INTERVAL		SPL. TRAY No.:	ABANDONED:	COMPLETED:	SPUDDED:	CONFIDENTIAL .	LATITUDE:	CO-ORDINATES:	YPE:	AL DEPTH:	D=V
PERFORATED	OIL N GAS N PRESSURE	-[				REC. ANAL	STO	COBING		DENL	D D D	SCHLUMBERGER	LOGGING			838	2749	961	H٩					_	SIAI. LEV.	WATER		_	_	NATUR	INITIAL OIL F		_	_	_	_	NAT		2980	MAY	MAY	MAY	MAN	42=13-10 81=08=07	200	ORJ EL	2145° PB	100
TED OPEN HOLE	NIL NIL	FINAL RESULTS				ANAL CORED INTERVAL	STORED	BECORD		8371-21311	בסססבס ווייו בונייהב	SER NITERYA	RECORD			CEMENTED	DEMENTED	MANGTNG	SET AT HOW SET	URING BECORD					FLOW	0				*LOW	RECORD					875	FLOW		INDEX No.	20,	Y 17, 1977	12.	V 17. 1079	Z		ELEV. 573+21	PAID.	1
m		S				REC. ANAL		-		LATL	- 1	1		-			- 50	20	RFC					-	3441					API GRAVILY						'S PSIG	PRESSURE		966				V	•		21.		

1	= 0 W	Total	Т	TY:		_	-	_	VI	CI	AN	-	Г	OV	_	_	-	_		E	ER	-	LUI	RIA	N	-	_	83	_	-		ICE:	_			H	QN	IIAI	NI NI	Т	П	8 8	<u> </u>	77	٤١
	SPRINGVALE AT GAS ANALYSIS WATER ANALYSI	Depth	IΦ	CAMBRIAN	2	BIVEB			TRENTON					CATAHACI					AMABEL		I					_							T		RIVER	-	1	_		Drift /	Lake/(	Somples start of	GEOLOGY BY:		COON T. LEGIN
	AT BASE OF SIS ON FILE YSIS ON FILE	Samples 2000 ft			Shadow Lake	Gull River	Coboconk	Kirkfield	Verulam	Cohourg	Meaford-Dundas	Queenston	Whirlpoot	Manitoulin	Cabot Head	Grimshy	Reynoles	irondequoit	Rochester	Gasport	Goat Island	Guelph	A-1 unit evap	anhy.	A-2 unit sall	carb	Sa		C unit			Funit shale		Bois Blanc	Amherathurg	Dundee	Marcellus		Xettle Point	Drift / Lake bottom		ONTACTS:	LEUM	CONSUMERS	CONSUMERS
	SIOB	0000										2012	2008	2002	1931	16001	1868		1830			1478	1	1456		1415	1396	1	1316		1192	11089	956	907	816	700	690	532	270	93	22	TOP	m	AS C	3395
	BLANC	MQC:																															L								573	ELEV			LAKE ER
		-	L			CORED I	CONDITION		.000	1650	83	LOGGED			2 381	1 500	9.63п	10.75	SIZE					1515*	INT					INI			L		C/87	ITNI		SPL. TRA	ABANDONED:	SPUDDED:	CONFIDENTIAL	LONGITUDE:		101/	ERIE 183-H
PER	OIL GAS PRE	-			_	INTERVAL REC.		00			831-20531 GH	INTERVAL T	CO.: SCH		4.7#	10000	36.0#	51.0H	WEIGHT					_	RVAL ST	WA				INTERVAL N	INITIAL				-6000	-	INT.	TRAY No : 2960	NED:	0.	AL:	DE: 42-18-	9	0	PERM PERM
PERFORATED YES	SSURE 8					ANAL CORED INTERVAL	STORED	CORING RECORD	r	OKOL GOO	-	15	BERGER	-			271 CEMENTED	93 HANGING	T AT HOW SET	AND TUBING R	_					WATER RECORD				URA	L OIL RECORD				TOT WCF/D	NATURAL FLOW	GAS		1	MAY 27 0	MAY 31.	-30 W	5.0		CONC.
OPEN HOLE	1882*-1909					TERVAL REC					83*-2053* CALP			0	5		TEO .	VG 93	Н	ECORD				SULPHUR	Ш				-	API GRAVITY	NO.				0 821 PS16	S.I. PF		No. 971	1161	1977	1978	SEQ:	27.7.462.		4419

OI .		_	_	ry:	E	LG	ΙN			_		_1	OW	NS	HIP	:		LA	KI	E 1	E R	ΙE			LOT	r:	18	3			CO	NCE	SSI	:NC	:	P					_	YI	EA	_	197	_	_	
	SPE	Tota	2	0		01	RDO	١٧c	CI.	AN			0	_	_		_		_	_	S	11	UR	I A	N								_	L	_	-	v o	_	_	_			Same	GEOL	GEO	DRIL	WELL	COOKIT
	SPRINGVALE AT GAS ANALYSIS O WATER ANALYSIS	Total Depth Sa		AMBRIAN	7 4 7	BLACK		TRENTON					CATARACT					0	AMARFI																	DETROIT		HAMILTON		TRI. LAMOION	DE LANGE ON L	Lake/G	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	DRILLING CO:	L NAME:	11.
	AT BASE OF IS ON FILE YSIS ON FILE	Samples 2100 ft	L		Shadow Lake	Gull River	Kirkfield	Verulam	Cohourd	Meaford Dundas	Queenston	Whirlpool	Manitoulin	Cahot Hand	Inoroid	Reynoles	Irondequoit	Rochester	Gasport	Goat Island	Eromoso	Guelah	A-1 unit carb	anhy.	A-2 unit sall	carb.	B unit salt		C unit	D unit sall		F unit shale	Bass Islands	Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus		Kettle Daint	Drift Lake portorn	Drift / Lake bottom	1 06.2		PETROLEUM F	UNDERWATER GAS DEV	CONSOMERS	2000
	STOB	DT M A D K A									2062	2058	2050	1069	1026	4161		1877			000	1500	1504	1495		1453	n n	1	1354		1231	1153	686	966	832		716		552	200	4.6	17	2	TOP	RESOURCE	R GAS DEV	LOSY/ LAKE	WINDLINE.
	BLANC	MQC: /				-										+																+	_							1		2/3	n d	ELEV THICK			AKE EKLE	
			_		ZIC	CORED INTERVAL I			1692*-2004*	95 - 2097	LOGGED INTERVAL	LOGGING CO.: SCH		7-30E 11-0H	7.000 20.00		10.75m 51.0H	<u> </u>				1			RVAL				NIL	INTERVAL	7			L		1920*-1975*	INTERVAL	ľ		ABANDONED.	COMPLETED:	SPUDDED:		LATITUDE:	CO-ORDINATES:	RIG TYPE: ORJ		E01.
PERFORATEDYES	OIL NGAS PRESSURE 81 PRODUCING INTVL	FINA	_	_		REC. ANAL CORED INTERVAL	CORING RECORD			GRNL	1	LUMBERGER	LOGGING	2010	868	682	94 9	SET AT	GAND						STAT. LEV. FLOW	WATER RECORD				NATURAL FL	ITIAL OIL REC					97 MCF/0	TURA	AL GAS	2961 INDE		CONF. 11	JULY 15,	41_	42-16-51 N		MEEV.		16
S OPEN HOLE	97 MCF/D 97 MCF/D 859 PSIG 859 PSIG	DEGLITO				DINTERVAL REC ANAL	ORD		A305004. FALL	95 - 2097 CALP			RECORD	ENIEC SO		CEMENTED	GING 94	SET	ECORD					SULPHUR	OW TYPE	ORO.				L FLOW   API GRAVITY	CORD				_	85	L FLOW S.I. PRESSURE		NDEX NO GRI			1977				573+211	121	

	SP	1 1-	1	YTY	Τ	EL	_		o v	ıc	IA	N		1	_	/NS	HIF	:	L	Α.	KE	E	R I	_	LUF	₹1 <i>/</i>	_	)T:	1	83				CON	ICE	SS	ION	:	_	R	10	NIA	N	_		1		_	97 GEC	_	WELL	COC
	SPRINGVALE A	Total Depth of	tol Donah Comp	AMBRIAN		RIVER	D		TRENTON						CATARACT						AMABEL	,																スマルス	DETROIT			HAMILTON		PRT. LAMBTON	Drift/L	Lake/G	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	D .	L NAME:	COUNTY, LEGIN
	T BASE	1000	0060	2	Shadow cake	Gull River	Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Meaford Dunda	Queenston	Whiripool	Manitoulin	Cabot Head	Grimshy	Thornia	Irondequoit	Rochester	Gasport	Goat Island	Eramosa	Guelph	A-1 unit evap	anny	A-2 unit sall		on anhy.	B unit salt		En≓		E unit carb		Dust signed	Bois Blanc	Amherstburg	Lucas	Dundee	Morcellus		Kettle Point		Drift/Lake bottom		240	NTACTS:	PETROLEUM	CONSUMERS G	CONSUMERS	N. I.
	OF BOIS BLANC	REMARKS	-		-							Н	2029	2026	2008	1036	1000	1000		1838				1494	0 1400	+	+	6. 1436	H		xer 1362		+	1015	+	†	200	067	300	686		518	262		95	22	H	ТОР	RESOURCE	GAS CO.	13456 LAKE	TOWNSTIT:
	ANC		MOC. 7																																											573	-	ELEV THICK			ERIE	10 L
			1		1 N L	CORED INTERVAL	CONDITION				9231-20651	85*-206	LOGGED INTE	LOGGING CO.:			1000 20		10.75m 51	╄							INTERVAL					ZIL	INTERVAL				1		852	INTERVAL		SPL. TRAY No :	ABANDONED:	COMPLETED:	SPUDDED;	CONFIDENTIAL:			CO-ORDINATES	AL DEPTH:		
PRODUCING	GAS					REC.	STORED	CORING RECORD			DENL	55 GRNL	INTERVAL TYPE LOC	SCHLUMBERG	Logging		7631	20°01 242.4	954	SET AT	၂၈					-	STAT, LEV.						NATURAL FLOW	INITIAL OIL				00	MOHS	NATURAL	INITIAL GAS	2669	SEPTEMBER	SEPTEMBER		OCTOBER	81-02-25	42-16-40	. OX 6 ELEV.	•	PERMIT No.:	FOLL TOP CONC.
3 INTVL.	NIL	FINAL RESULTS				ANAL CORED INTERVAL	ED	RECORD			950 -2050	851-20651	LOGGED INTERVAL	70	RECORD		CEMENIED	CEMENTED	HANGING	HOW SET	10.4					SUL	FLOW	0					AP	RECORD				581		FLOW S.	RECORD	NDEX No. 9	28,	27,	23	27, 1977	W SEQ:	2	EV. 3/3**22	Ö	4528	7
		-			_	REC. ANAL					LATL		TYPE		-		_	-	95	REC						SULPHUK	TYPE						GRAVITY					PSIG		I. PRESSURE		93							2			

		_	JNT	r:	-	LG						_	то	W١	ISH	P:	L	Α.	ΚE	E	R	ΙE				LO	r:	18	3			co	NC	ESS	5101	v:		S	_				_	YE	1	166	197		_
	SPRINGVALE AT B GAS ANALYSIS ON WATER ANALYSIS	Total Depth Sc	PRECAMBRIAN	CAMBRIAN	20	BLACK	DO	TRENTON	CI	AN				CATARACT	_				AWADEL	7		S		JR	1 A	N			_		_		_				RIVER	т	T	HAMILTON	AN	PRT. LAMBTON	Drift/L	Lake/G	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	, р	WELL NAME:
	AT BASE OF I	Samples 2020 ft	AZ		SUL KIVET	Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Cueenston	Whiripoot	Manitoulin	Cabot Head	Grimsby	Thorold	Reynales	Irondequoit	Rochester	Gasport	Goat Island	Eramosa	evap.	A-1 unit carb	anhy.	A-2 unit sall	carb	a B unit sall		C unit	unit	E unit carb		G unit shale	Bass Islands	Bois Blanc	Amherstburg	T II COM		Morcellus	Kettle Point	_	Unitt/ Lake bottom	Lake/Ground level	₩ C62	NTACTS:	PETROLEUM RESOURCE	CONSUMERS GAS CO.	CONSUMERS
	BOIS							Ī			4202	2020	2010	1930	1898	1891	1878		1839			24,00	1 LO 3	1478	1470		1430		1366	1334	Ī	1216	1133	1109	968	902	810	200	600	694	200	200	46	22		TOP	RESOURC	GAS CO.	13396 LAKE
	BLANC	MQC: 7															I																					1	-					573		ELEV THICK.		<	KE ERIE
				i	CORED INTERVAL REC.	CONDITION			_	9230-2025	LOGGED INTERVAL	LOGGING CO.: SCHL			11.6#	20.0#	9.631 36.0#	_	SIZE WEIGHT	CASING			_	_		INTERVAL SI					INTERVAL						2006	19901-00061	INTERVAL	WPC. FRAT NO.: A		COMPLETED	SPUDDEO:	CONFIDENTIAL:	1	LATITUDE:	CO-ORDINATES:	N	183-S PEI
PERFORATEDYES OPEN HOLE	OIL NIL GAS 315 MCF/I PRESSURE 857 PSIG				C. ANAL CORED IN ERVAL		CORING RECORD			DENE 948*-2012*	יודב בטשפט ואובאי	LOGGING CO.: SCHLUMBERGER	LOGGING RECORD	1873 HANGING		923 CEMENTED	295 CEMENTED	94 HANGING	SET A	AND TUBING RECORD						STAT. LEV. FLOW	WATER RECORD				Ī	RECORD					_	10 TOW	-6	INDEX NO.		JUNE 8, 1977	4	JULY 8, 1977	W	42-16-36 N	ELEV. 3/3:452	RBTD 199	Z 0
2	MCF/D 7 PSIG 1898*-1912*				HEC. ANAL			-		ATI				9	934			94.9	REC							TYPE					API GRAVITY						000		201122300	0.16	1				SEQ: 1		.22.	3	

p=			-	_	YTY	:	EL	_	_				_	Т	ow	NSH	IIP:		L	٩KI	E I	R				_	)Т:	18	3 3			C	ONC	ES	SIO	N:	_					1	Y	EA		19	_	<	īc.
D.S.T (S) ON		SPRINGVALE		Total Depth Samp	CAMBRIAN	-	O BLACK	Т	NO.		CIA	IN			CATARACT		Γ			AMABEL			SI	LUI	RIA	AN	_	_		_							RIVER	т	-	HAMILTON		PRT. LAMBTON	Drift/L	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	OPER ATOR:	WELL NAME:	COUNTY: ELGIN
FILE		AT BASE OF		Samples 2100 ft	2	Shadow Lake	Gull River	Coboconk	Kirkfield	Cobourg	Collingwood	Meaford Dundas	Queenston	Whirlpool	Monitoulin	Grimsby	Thoroid	Reynales	Irondequoit	Rochester	Gasport	Eramosa	Guelph	A-1 unit evap	Carh	A-2 unit sall			B unit salt	a c dill snorker	-	Unit	F unit shale	G unit shale	Bass Islands	Bois Blanc	Amharathura	Dundee	Marcellus		Kettle Point		Drift / Lake bottom	COUNTY INVESTIGATION	D A	EUM	CONSOMERS	CONSUMERS	
		BOIS BLANC	REMARKS	MOC									2075	2072	2061	1079	1938	1924		1888			1523	000	15000	1500	1459	1438		1396	125	1238	H	Н	977	928	30	969	202	22.23	282		95	T	TOP ELEV	RESOURCE	GAS CO.	AKE	
TREATMENT: PERFORATED	PRESSURE PRODUCING INTYL	OIL				ZIC	TERVAL REC. ANAL	CONDITION STORED	COBING BECORD			92*-2099* GRNL	ERVAL TYPE	LOGGING CO.: SCHLUMBERG	OGGING BECORD		20.0H B40.		51.0H 94*		CASING AND TO			1705*	16199	INTERVAL STAT. LEV.	WATER			79302101.	NAI	INIT				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1930*=2101*	ERVAL	INIT	SPL. TRAY No.: 3071	ABANDONED: MAY	Ö		CONFIDENTIAL: MAY	THICK. LATITUDE: 42-15-23	CO-ORDINATES:	Ŧ	PERMIT	띶
ED OPEN HOLE	ידער.	NIFF	FINAL RESULTS				CORED INTERVAL REC ANAL	ED	BECORD			92 2099 CALP	12	T.R.	BECORD		CEMENTED	CEMENTED		HOW SET REC.	AND TUBING RECORD			SHOW SULPHUR			0			1	C FLOW API GRAVITY	2					215 0576	L FLOW S.I. PRESSURE		DEX	26,	55	21, 1977	Š	n o	0.00	TD. 57404006	9114	*

_	POOR		_	NTY D C	I	_	L G	DC	_	CI.	AN			_	/NSI	HIP	:	LA	KE	E E	E R		ILL	JRI	An	.от		184	4	_	cc	ONC	ESS	ION	1:	DE	. v c	ONI	_	_		YE	Somp	_	_	77 OPE	WELL
	OR SAMPLE		Total Depth Samples	PRECAMBRIAN		RIVER	BLACK		TRENTON					CATARACT					TWACEL	200															XIVEX.	-		HAMILTON		T. Lamoron	DRT I AMRTON	Lake/G	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	OPER ATOR:	L NAME:
	E QUALITY		moles 1965 ft	2	Shadow Lake	Gull River	Coboconk	Kirkfield	Verulam	Cobourg	Meaford Dundas	Queenston	Whirlpool	Manitoulin	Cabot Head	noroid	Reynales	Irondequoit	Rochester	Gasport	Goat Island	Eramosa	erap	A-1 unit corb.	anhy.			B unit salt	C unit snarker	Unit		F unit shale	G unit shale	Base Islands	Amherstburg	Lucas	Dundee	Marcellus		Kettle Point	0.00	Lake / Ground level	# 00#	22	PETROLEUM RESOURCE	CONSUMERS GAS CO.	CONSOMERS
		REMARKS										1928	1923	1908	1826	170/	1774		1734			0747	1	1396	1390	DCCT	1332	1	1290	1261	1140	1063	1037	879	040	7115	628	618	458	282	,	2.4	2	TOP	RESOURCE	GAS CO.	13406 LAKE
			Mac: 7						-						-																											2/2	R d	ELEV THICK			KE EKIE
			_		NIC	RVAL			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17479-19179	24-1964	LOGGED INTERVAL	LOGGING CO.: SCH		40.70	11	- 60	10.75m 51.0m	SIZE WEIGHT	CASING						INTERVAL			245	INICAVAL						1840		ы	"	ABANDONFD:	COMPLETED:	CONFIDENTIAL:	Ш	LATITUDE:	CO-ORDINATES:	>	I BH-I PE
	PRESSURE 837	FINAL RE			_	REC. ANAL CORED INTERVAL		CORING RECORD		_	GRNL 24*-1964*	TYPE LOGGED INTERVAL	SCHLUMBERGER	LOGGING RECORD	T.O. HANGING	1949			SET AT	AND						WATER RECORD				NATURAL FLOW					132 MCF/D			L GAS	2939 INDEX No.	1		JUNE 21, 1977	3	18-08		PBTD. 191	MIT No.:
	MCF/D PSIG 17971-1822	RESULTS				TVAL REC ANAL	1				1964 CALP				4	200		96	SET REC.	CORD						TYPE				AFI GRAVIII	7				837 PS16		S.I. PRÉSSURE		965	7 7	77	77	SEQ: 1		43.0	74	4430

Z C	П	ग	T	Ţ	_	GI	DO	-	CI	AN	_	Γ	rov		T	_	L	AK	E	E.F	S	ILU	RI	_	_OT	_	18	ь	_		JOIN	UES	SSIC		_	EV	_	NIA	_		Ī		_	SEO CHE		WELL
SAMPLES	1	tal Death Samples	PRECAMBRI		RIVER	BI ACK		TRENTON					CATARACT					AMADEL	200																RIVER	2		HAMILTON		PRT. LAMBTON	Drift/L	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:		WELL NAME:
	100	moles	A	Shadow Lake		Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Queenston	Whirlpool	Manitoulin	Cabot Hear	Grimshy	Reynoles	Irondequoit	Rochester	Gasport	Goat Island	Eramosa	] :		-	A.V Init S		ali B unit s			D unit c			Bass Islands	Bois Blanc	Amherstburg	Dundee	Morcellus		Kettle Point		Drift/Lake bottom	art at	ONTACTS:	PETROLEUM	CONSUMERS	CONSUMERS
	REMARKS	-		X						das					-					4		екар.	carb.	anhy.	salt.	anhy.	salt	marker	shale	carp	shale	shale	8						276		96	17	TOP	RESOURCE	RS GAS CO.	13409 LAK
		0000																																								577	ELEV THICK.			E ERIE 186-C
				NIL.	CORED INTERVAL	CONDITION				Z	LOGGED INTERVAL	0,			_	8.63m 24.0H	10.75n 51	SIZE WEIGHT	CA					1	INTERVAL			1	TIN COURT	INTERVAL					NTC.	INTERVAL		SPL. TRAY No.:		ED:		CONGITUDE:		RIG TYPE:	AL DEPTH:	
OIL GAS PRESSURE PRODUCING IN	FII			_	REC.	STORED	CORING RECORD				TYPE		LOGGING RE			0# 360 1	961	SET A	CASING AND TUBI	_							_		2000	INITIAL OIL R		_				NATURAL		ï	AUGUST 1			SEPTEMBER 1	42-19-20 N	ORU ELEV.		Z <sub>0</sub>
NIL NIL	FINAL RESULTS				ANAL CORED INTERVAL REC		CORD				LOGGED INTERVAL		RECORD			180*	HANGING	HOW SET REC	TUBING RECORD						-				П	OIL RECORD AD GRAVITY						FLOW S.I. PRESSURE		NDEX No.		11, 1977	10, 1977	1. 1077		5/3*+25*		0844

		-	OUNT	γ:	-	L G						Т	O.	NSI	IIP:		L	4 K !	E E	ΕR	_			LO	т:	1	86			COI	ICE:	SSIC	ON:	_	С					,	re A			97		: 10
		CODINCUALE	PRECAMBRIAN Total Depth Samples	CAMBRIAN	RIVER		DC	TRENTON	CI	AN			CATARACT					AMABEL			SII	LUI	RIA	N	_	_			_	_				RIVER	EV	_	HAMILTON		PRT, LAMBTON	Drift/L	Lake /G	PEOLOGICAL CO	GEOLOGY BY: PEIKU	DRILLING CO :	OPER ATOR:	- 1
	0 0 0 0	DACE O	AN 2010 ft		Shadow lake	Coboconk	Kirkfield	Verulam	Cobourg	Meaford Dundas	Queenston	Whirlpool	Manitoulin	Cabot Head	Thorold	Reynales	Irondequoit	Rochester	Goat Island	Eramosa	Guelph	A-1 unit evap	carh	A-2 unit salt	carb.	Sa		C unit	unit		F unit shale	Bass Islands	Bois Blanc	Amherstburg	Dundee	Morcellus		Kettle Point		Drift/Lake bottom		380 #	PERCLEUM RESOURCE	UNDERWATER GAS DEV	CONSUMERS	CONCLIMENT
	5 6 7	REMARKS	MQC:								1976	1973	1954	1887	1831	1818		1776			1462		1444		1403	1383	1340	1312		1188	1112	966	894	796	040	903	52/	280		96	25 573	וטף בנבע		GAS DEV		1346A AKE
					CORED INTER	CONDITION			3102-11/6	86*-2012*		LOGGING CO.:				8.63# 2	_	$\exists$						INTERVAL				NIL	INTERVAL					1846*-1862*	MAD +	1	SPL. TRAY No.	ABANDONED:	COMPLETED		CONFIDENTIAL	THICK.	20117	RIG TYPE:		F ERTE 186-C
000000000000000000000000000000000000000	PRODUCING INTVL				VAL REC. ANAL COREDINIERVAL		CORING RECORD		רבאר	GRNL	L TYPE LO	SCHLUMBERGER	LOGGING RECORD			24.0# 373 CEMENTED	96	SET A	CASING AND TURING	_				L STAT. LEV. FLOW	WATER RECO				NATURA	INITIAL OIL RECORD				3621	NA	INITIAL GAS		: AUGUST	AUGUST	AUGUST	SEPTEMBER	80-47-32 W	10-10-11	ORJ	2014 PBTD	AND CONC.
	V. NIF	FINAL RESULTS	_		INTERVAL REC ANAL		RD		T.=1444   LAIL	86'-2012' CALP	LOGGED INTERVAL TYPE		)RD			_	4	T HOW SET REC	BECORD					W TYPE	RO			-	OW API GRAVITY	ORO				456 PSIG	OW S.I. TRESSORE	2	x No. 992	1977	1977	1977	1977	SEO. 1		573*+25*	4.04	1221

_		c	cou	NT	Y:	Ε	L G	il	N						то	WN	SHI	P:	ı	_ A	ΚE	E	RΙ	Е				LO	T:	1	8	6			CON	ICE	SSI	ON		D					_	Y	EAI	R:	1	97	7		-
9-0	G A		Total	اه			0	RE	0	VI	21/	N		L		_							_	s	ILI	UR	I A	N									_	L	1	DE	v	NI	AP	_		T	Sam	GEO	GEO	DRI	O PER	COL	3
D.S.T. (S) ON	GAS ANALYSIS		Depth	PRECAMBRIAN	AMBRIAN	RIVER	BLACK		ZENION						2	ATABACT					AMABEL																		RIVER	DETROIT		HAMILTON			PRT LAMBTON	Driet	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:		OPER ATOR:	Y. LEG.	NEC FIGI
FILE	IS ON FILE		Samples 2020 ft.	2		Shadow Lake	Gull River	2000	Kirkfield	Version	Collingwood	Meaford Dundas	Queenston	Whirlpool	Manitoulin	Cabot Head	Grimsby	Thoroid	Reynoles	Irondequoit	Rochester	Gasport	Goat Island	Gueipn	екар	A-1 unit carb.	onhy.	A-2 unit sall	carb.		B unit salt				E unit carb	F unit shale		Bois Blanc	Amherstburg	Lucas	Dundee	Morcellus		Kettle Point	MBTON CONTOUR	Drift / Lake bottom	427 11	NTACTS:	PETROLEUM RESOURCE	UNDERWATER	ONSUMERS	CHICIMEDO	1
	B SIOB												1971	1966	1954	1882	1637	1829	1814		1772			0447		1434	1428		1390	1372		1330	1298	0 - 0	1176	1008	946	906	808		694	9	500	274	20	96	10	TOP	RESOURC	GAS DE	GAS CO.	WNSHIP	TOWNSON D.
	BLANC		MQC:	1																																										370	177	LEV.		<	200 000	על ביייייייייייייייייייייייייייייייייייי	312
TREATMENT:			1																																													THICK	1.	20 ;	Foc	בעזה	AKE FRIF
ENT:					f	NTI NTI	CORED INTERVAL	200		TOOK T. DOOT	2019-414	80*-2019*	LOGGED INTER	LOGGING CO.: S		-	8.63m 24.0#	_	_	H	SIZE WEIGHT	CA						INTERVAL					ZI	INTERVAL						1820*-1870*	INTERVAL	G. 177.	SDI TOAY NA	ABANDONED:	COMPLETED:	AC	- 1		ORDINATES:	RIG TYPE:	AI DEBTH	LOT	
FORMATION(S) GR LMSBY	OIL GAS PRODUCING			_		200	038			•	DENC		VAL TYPE	CO.: SCHLUMPERGER	LOGGING		0# 417*			٥	SET A	CASING AND	_		_	_		STAT, LEV.	WATER	_		_		NATURAL	INITIAL O	_	_		_	-	NATURAL	INITIAL G	2547	MOGOS	Aligina	OFF LEMOR	SEPTEMBED	42-19-38		ORL I	PERMIT No.:	TOO CONC	186 0000
	OIL NIL GAS 148 MCF/D PRESSURE 824 PSIG PRODUCING INTVL. 1833** PERFORATED YES OPEN HOLE	FINAL RESULTS				TOUR CONTRACTOR OF THE PARTY OF	FRVAT	CONTRO RECORD	95000		4149-20069	80*-2019*	LOGGED INTERVAL	GER	RECORD		CEMENTED			HANGING	HOW SET	TUBING RECORD						STAT, LEV. FLOW TY	RECORD	_	_			L FLOW	RECORD	_	_	_		MCF/D	- 1	INITIAL GAS RECORD	INDEX NO GOL	609	200	Y 17, 1977	\   	2		ELEV. 573*+24*	0 1966*	C	
	1866*					NEC MANAL					LATL	CALP	TYPE					930	95.	960	REC.							TYPE					3	API GRAVITY						PSIG	S.I. PRESSURE	ľ					-			-			

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-			_	CC	NUN.	TY:	_	EL	G I	N	_					TO	wN	SHI	P:	L	A K	E	E R	ΙE				LO	τ:	1	86	,		co	NCI	ESS	ION	1:	F		_				YE	AR	: 1	197	7		_
1			GAS	10101	1			0	R	00'	VI	217	AN											5	SIL	UR	ΙA	N									I		DE	V	ON	IAP	ų.	T	T	Som	GEC	GEC	OPER	COL	CL,
D.S.T. (S) ON			S ANALYSIS	Depth	ECAMB	CAMBRIAN	7	BLACK		200	1000					3	CATABACT					AMABEL																RIVER	DETROIT		HAMILTON		TAI. LAMBION	Drift/L	Lake/G	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	ATOR:	Y ELGI	CLASS: DEVEL
FILE			IS ON FILE	Samples 2030 ?			Shadow Lake	Gull River	Coboconk	Xirkfield	Version	Collingwood	Meaford Dundas	Queenston	Whirlpool	Manitoulin	Cabot Head	Grimsby	Thoroid	Revocies	Rochester	Gasport	Goat Island	Eramosa	Gueloh	A-1 unit carp	anhy	A-2 unit salf	carb		in B unit salt	C unit				G unit shale	Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus		Kettle Point	Drift/ Lake bottom	Lake/Ground level	510 ft	NTACTS:	PETROLEUM RESOURCE	CONSUMERS 6	SNO	
			3 3 3 3	REMARKS										2014	2009	2000	1922	1878	1872	1221	21812				1496	+B+T	+	Н	1438	+	W 7210	+	t	1225			040	800		743		576	284	96	26		TOP	RESOURCE	GAS CO.	TOWNSHIP: L	FIELD/POOL: SILVER CR. (L.ERIE)
				M CC.					-		-	-	-	L						1	-										-					-	-	L						-	573		ELEV	M <		LAKE E	VER CR.
TREATMENT:				-	L			CC	8	+																							-									SP 1	2 5	SF	8 8	┺	THICK. LA	RIG CO-	. !	RIE	(L.ERIE
NT:							NIL	CORED INTERVAL	CONDITION		T/00/T	0002-1000	85 -2050	DGGED INTER	LOGGING CO .: SCH		H			TG 457 67	╀	1						INTERVAL				NIL	INTERVAL						1870*-1910*	INTERVAL		SPL TRAY No :	ABANDONED.	SPUDDED:	CONFIDENTIAL:	LONGITUDE:	LATITUDE:	CO-ORDINATES:	TOTAL DEPTH:		
FORMATIO	PERFO	PRESSURE PRODUCING	OL	-				REC.	S	CORII			GRNL	RVAL TYP		LOGGING			11.6# 2032*		S	1 "		_			_	STAT. LE	WATE		_	_	NAT	INITIAL			_		2	NAT	ш		AUGU	AUGU				ORL	*	186 CONC	STATUS: GAS PRODUCER
N(S)	PERFORATEDYES OPEN HOLE	844 844	NIC	TINAL DESI				ANAL CORED INTERVAL	STORED	CORING RECORD		_	85*-2050*	LOGGED INTERVAL	RGER	NG RECORD				HANGING		UBING RE						STAT. LEV. FLOW	RECORD				NATURAL FLOW	RECORD							INITIAL GAS RECORD	NDEX No.	a	ST 5, 1977	8	×	CO Z	ELEV. 573	PBTD. 1998*	IC: F	ODUCER
THOROLD	HOLE	2 MCF/0 4 PSIG 1874*-1894*	-	10				REC ANAL				DIAJ CAIL	50 CALP		1			950	95.9	496	R							TYPE					API GRAVITY						BISd ht8	S.I. PRESSURE		991				SEQ: 1		573++26*			

<b>₹</b> G		T <sub>o</sub> t	70	Ţ	-	R	DO	VI	CIA	٩N											SIL	U R	RI A	N									DI	ΕV	ON	IAI		I		Som	GEO	DRI	0 7	
WATER ANALYSIS		Total Depth Samples	PRECAMBRIAN		RIVER	BI ACK		TRENTON					CATARACT					AMABEL															RIVER		0.4	NOT TON	Tomor Con	Drift/I	Lake/(	Samples start at	GEOLOGICAL CONTACTS:	DRILLING CO:	OPER ATOR:	COON T. WWO AT
ASIS ON FILE		amples 2030 ft	Z	Suddow Lake	Gull River	Coboconk	Kirkfield	Verulam	Collingwood	Meaford Dundas	Queenston	Whirlpool	Cabor Head	Grimsby	Thorold	Reynales	rondequoit	Rochester	Goat Island	Eramosa	Guelph	A-1 unit corp	anhy	A-2 unit salt	carb	D unit	C unit shale		E unit carb	Funit shale	.10	Bois Blanc	Amherstburg	Dundee	Marcellus		Kettle Point	Drift/Lake bottom	Lake/Ground level	434 4	ONTACTS:		CONSUMERS	CONSUMERS
řn.	REMARKS	-									1993	1990	1904	1860	1852	1836	* 1 30	1793			1468	1400	1451		1412	1392	1324		1202	Ť	958	922	834	723		555	274	96	25		TOP	GAS DEV	GAS CO.	13411 AXE
		MQC: 7	-						-			-													1				-	-				-			1	-	57.3		ELEV.	n <		FR
OIL NIL S MCF/D GAS GAS 445 MCF/D PRESSURE A19 PSIG PRODUCING INTVL. 1860 - 1888*	FINA			N.F.	CORED INTERVAL REC. ANAL CORED INTERVAL REC ANAL	CONDITION STORED	CORING RECORD				LOGGED INTERVAL TYPE LOGGED INTERVAL TYPE	LOGGING CO.: SCHI IMPERGER			CEMENTED	24.0H 424. CEMENTED	SH 51-0# 96" HANGING	SIZE WEIGHT SET AT HOW SET REC	1				1510*-1570* SULPHUR	STAT. LEV. FLOW	WATER RECORD			INTERVAL NATURAL FLOW API GRAVITY	INITIAL OIL RECORD				1845*-1895* 445 MCF/D 819 PSIG	NATURAL FLOW S.I. PI	INITIAL GAS RECORD	SPL. TRAY No.: 2592 INDEX No. 989	WOOD (50)	0 N 7 N	IAL: SEPTEMBER 25, 1977	LONGITUDE:	THICK LATITUDE: 42-18-54 N	YPE: ORJ ELEV.	TAL DEPTH: 2030 PB.T.D. 198	F 186-F COIL AND CONC. 1

| 0           | _                  | П                                       | T  | E                  |  |  | _  | /10  | 217  | AN   
  | _   | 1   | ΓΟ   | WNS  | SHI  | P:  
  |  | MΑ   | LA   | H  | DE   
   |  | LU  | RI   | _   | _        | :  
   | 9                      | 1  | _   |   | COI   
  | NCE                      | SSI                  | ON   | 1:   | -  | _  | -                     | IAI                    | N   
   | T                 | YE  | _  | _  |  |                                   | ¥E   | CO  |
|-------------|--------------------|---|--|--------------------|--|--|--|--|--
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UNIT EQU	al Depth Sa	RECAMBRI	AMBRIAN	RIVER	BLACK
  |   |   | CALARACI   | 1  |  |   
  |  |  | AMABEL   |  |  
   |  |   |  |   |          |  
   |                        |  |   |   |   
  |                          |                      |  | L.   | ٦  |  | HAMILION              |                        |   
   | ٧.                | Lake/G  | ples start at  | DLOGICAL CO  | CLING CO.  |                                   | LL NAME:   | COUNTY: CLOIM                             |
| 864         | 1150 W             | П                                       |  | Shadow Lake        | Gull River   | 7177616  | Veruion  | Cobourg  | Collingwood  | Meaford Dundas   
  | Queenston   | Whirlpool   | Manitoulin   | Cabot Head   | Grimsby  | Thorold   
  | Reynales   | irondequoit  | Rochester  | Gosport  | Eramosa  
   | Guelph   |   |  | 201   |          |  
   | a B unit salt          |  | C unit  |   |   
  | _                        | G unit shale         | Hois Blanc   | Amherstburg  | Lucas  | Dundee   | Marcellus             |                        | Kertie  
   | and a control of  | round level   | 23/ ft   | 9  | PETROLEUM F  | ROSE MURRA                        | FORBES NO.5  |   | | |
| 3 2 2 2     |                    |   |  |                    |  |  |  |  |  |  
  |   |   |  |  |  |   
  |  |  |  |  |  
   | 1014   | 1006  | 950  | 949   | 126      | 918  
   |                        | 907  | 870   |   | 749   
  | 060                      | 675                  | 100  | 100  | 314  | 244  | 238                   |                        | | |
   |                   |   |  | TOP  | ESOURC   | ₹ <del>7</del>                    | HALAH 6  | WNSHIP                                    |
| U           |                    |   |  |                    |  |  | -  |  |  |  
  |   |   |  |  |  |   
  |  |  |  |  |  
   |  |   |  |   |          |  
   |                        |  |   |   |   
  |                          |                      |  |  |  |  |                       |                        | +   
   |                   | 218   |  | -  |  |                                   | IDE 2-91-N   | MALADIUC                                  | | |
|             |                    | Ш                                       |  | NI                 | CONDITION  | 200  |  |  | L  |  
  | LOGGED INTER  | LOGGING CO.:  |  |  | _  |   
  |  | +  |  | 2  |  
   |  | 1083*   | 395  | 2411  | INTERVAL |  
   |                        |  | NIL   | INTERVAL  |   
  |                          | 1                    | _  | _  | 3110   | INTERVAL   |                       | SPL TRAY No .:         | ABANDONED:  
   | COMPLETED:        | CONFIDENTIAL:   | LONGITUDE:   | 1  |  | OTAL DEPTH:                       |  | LOT                                       |
|             |                    |   | _  | NEC.               | 000  |  | COBINO DE  |  |  |  
  | TYPE  | AT GUNS   | LOGGING R  |  | -  | 1414  
  | 245  | 220  | SET A  | 200  | | | |
   |  | 271   | 15   | 40 to | WATER RE |  | _                      |  
   |   | TURA  | 9  |                          |                      |  
   | _  | SHON   |  | ы                     |                        | NOVEMBER  | NOVEMBER .        | NOVEMBER  | 80-56-46 W  
  |  | 1270*5   | •                                 | Ñ.   | AT CONC.                                  |
| NIL KEROLIA |                    |   |  |                    | 1  | 1000   | 0000   |  |  | 240 - 390 •  
  | GGED INTERVAL   |   | ECORD  |  | 200  | MENTED  
  | REFOOT   | STNG CHOF  | HOW SET  | NG RECORD  |  
   |  | SULP  | SULP   |   |          |  
   |                        |  | 1   |   | ECORD   
  |                          |                      |  |  | -  | FLOW S.I.  |                       | 1                      | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
   |                   | *   |  |  | 36<br>4.270  |                                   | 4569   | ZZ  |
|             | UNIT EQUIV 864 COL | Total Depth Samples 1125 ft MGC: / FINA | Total Depth Samples 1125 tt MQC: 7  D UNIT EQUIV 864 | 1125 11 MQC: 7 OIL | PRECAMBRIAN  Total Dapin Samples 1126 ft. REMARKS  TOTAL DAVIT EQUIV 864  TOTAL DAVIT EQUIV 864  TOTAL DAVIT EQUIV 864  TOTAL RESULT NIL | TOTALI DEPTH Samples 1126 ft.  D UNIT EQUIV 864  COMBINER MACK: 7  COMBINER NIL  COMBI | BLACK GUIRIVAR CONDITION STORED ON TOTAL CONDITION STORED ON TOTAL CONDITION STORED ON TOTAL CONDITION STORED ON TOTAL CONDITION ON TOTAL CONDITIO | CAMBRIAN  CAMBRIAN  CAMBRIAN  CAMBRIAN  PRECAMBRIAN  PRECAMBRIAN  TOTAL DEPTH Samples 1126 ft. REMARKS  COUNTY EQUIV 864  CONDITION  FORCE  CONDITION  CONDITION  CONDITION  CONDITION  CONDITION  FORCE  CONDITION  CONDITION  FORCE  CONDITION  FORCE  CONDITION  FORCE  CONDITION  CONDITION  FORCE  CONDITION  FORCE  CONDITION  CONDITION  FORCE  FORCE  CONDITION  FORCE  CONDITION  FORCE  CONDITION  FORCE  CONDITION  FORCE  CONDITION  FORCE  FORCE  CONDITION  FORCE  FORCE  FORCE  CONDITION  FORCE  FORCE  FORCE  CONDITION  FORCE  FORC | TRENTON KIRCHING CORD CORD CORD RECORD RECORD STORED NITEWAL REC. AWALL COREDINTERVAL REC. AWALL | TOTALL DEPTH SUMPLES 1126 11 REMARKS  O UNIT EQUIV 864  CONDITION CORRUNG RECORD CORRUNG RECORD INTERNAL REC. AND CORRUNG RECORD INTERNAL ORDED INTERNAL | Collingwood   Collingwood | A Callingwood 200 NTERVAL TYPE LOGED INTERVAL | Unit Equit 864  Whirippoil  Logenston  Logen | Whiripool  Z  Medicyd-Dundas  Z  Medicyd-Medicyd-Dundas  Z  Medicyd-Medicyd-Dundas  Z  Medicyd-Medicyd-Dundas  Z  Medicyd-Medi | CAMBRIAN  Tatal Depth Samples 1126 #  PRECAMBRIAN  DO UNIT EQUIV 864  CONTREVAN  CONTREVAN  CONTREVAL  CONTREVAL  CORED NTERVAL  LOGGING CO.: GREAT GUNS  LOGGING CO.: GREAT GUNS  LOGGING RECORD  LOGGING RECORD  LOGGING RECORD  LOGGING RECORD  LOGGING RECORD  LOGGING RECORD  CORED NTERVAL  STORED  NIL  Tatal Depth Samples 1126 #  REMARKS  OIL  NIL  NIL  NIL  NIL | CATARACT Cobon Head  Manifosol  Cobon Head  Cobo | CATARACT Cabor Head Control Co | Reynoles  Reynol | CAMBRIAN   Cambridge   Cambr | AMABEL Rochester Rochester Rochester Rochester Rochester Rochester Reynolds Reynolds Reynolds Reynolds Reynolds Reynolds Reprocedure Reynolds Reprocedure Reynolds Reprocedure Reynolds Reprocedure Re | AMABEL Reports Size WEIGHT STAT HOW SET Inchesitor Size WEIGHT STAT HOW SET Inchesitor Size WEIGHT STAT HOW SET Inchesion State Stat | AMABEL Gost sind  Gost sind  Amabel Gost sind  Gost sin | Godd   1014   Godd   1014   Godd   Godd   1016   Godd   1016   Godd   1016   Godd   Godd   1016   Godd   Godd | Sunity   S | A-1 unit  | A-1 unit | A-2 unit   anit   ani | A2 unit   carb.   92.1 | A2 unit   solf   solf | Martical   Martical | Cart   shade   STO   NIL   STATE   RECORD   NIL   STATE   STATE | Cantarana   Cant | Canhi soft   Corbo   T49 | Funit   Sinite   660 | CAMBRIAN   Tends   Size   Size   Wilder   Size   Willer   Size   Size   Willer   Size   Siz | Gurit state   6.35   Gurit s | Solid Blanck   ST9   Stories   Stories   ST9   Stories   ST9   Stories   ST9   Stories   ST9   Stories   ST9   Stories   ST9   Stories   Stories   ST9   Stories   Stories   ST9   Stories   Sto | Ambersiburg   361   314   311   31 | DETROIT   Luces   244 | Defendit   Lucas   238 | Ammiliton   Morcellus   238   Morcellus   244   Morcellus   244   Morcellus   244   Morcellus   244   Morcellus   244   Morcellus   248   Morcellus   248 | Remit Point   238 | PRILABITION   COMPLETED: NOVEMBER 17, 1977   1977   2   2   2   2   2   2   2   2   2 | CATRANCO   Complete bottom   September   September | Samples abort of   2-7 H   312   CONFIGNICE: NOVEMBER 9   1978 | Semple Series   223 ft   170   ELEV   THISK   LATITUDE: 40246-45 w   180-56-44 w   1 | Semples sort   PCTROLEUM RESOURCE | OPER ATON:   ROSE' MURRAY   POTAL DEPTH: 128   PRITE | WELL NAME: FORBES NO.9 MICHATIDE 2=91-MTR |

	N D		<u> </u>	T	T	-	O F	RD	ov	10	1 4	N							_	DE	_		-	14	UR	I A	N			_	_			_	_	ON:	D	ΕV	01	NIA	AN		П	90	GE	19		<b>8</b>	ဂ္ဂ
	D UNIT EQUIV		Total Denth Samples	PRECAMBRIAN		RIVER	BLACK		TRENTON						CATARACT					1	AMARF												-				RIVER.	DETROIT		HAMILTON		PRT. LAMBTON	Drift/	Lake /	GEOLOGICAL CONTACTS:	GEOLOGY BY:	Р Ъ	WELL NAME:	COUNTY: ESSEX
	Sar	ш	mnies 1220	A	Suddow Lake	Gull River	Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Meaford Dundas	Queenston	Whirlpool	Manifoulin	Grimsby	Inoroid	Reynales	Irondequoit	Rochester	Gasport	Goat Island	Eramosa		A-1 unit	0.0	A-2 unit Si		a B unit s		Cunit	D unit s		G unit s	Bass Islands	Bois Blanc	Amherstburg	Lucas	Morcellus	Marcallia	Kettle Point	4	Drift / Lake bottom	Lake/Ground level	ONTACTS:	PETROLEUM R	ALLIED	ALLIED	
	PRESENT	RE		+	ê		-					das			-		+	-	ŀ					doing	+	-	salt 11	-	Т	marker 5	0		carb 7	+	-	H	+	+	+					-		UM RESOURC	CHEM. CAN.	CHEM G-	TOWNSHIP:
		MARKS	Mon																						21	15	1122	4	13	165	905		41	626	141	356	30	41					4	577	TOP   ELEV	m	A.	訚	HIP: ANDERDON
			1			CORED	CONDITION						LOGGED	LOGGING CO.			f.5	7.00m	10.7	SIZE						U)	-					-								SPL. TF	ABAND	COMPL	SPUDDED:	CONFIDENTI	THICK. LATITUDE:	J	TOTA	4 35-1	NOON
-		_	_		Z	CORED INTERVAL REC						11-12231	INTER		-		9.5#	17.0#	40.5#	WEIGHT	1 OI				_	570	INTERVAL ST				NIL	INTERVAL	I.V.				į	NI P		TRAY No.: 24	1	COMPLETED: DE		<u> </u>		TES:	<u></u>		LOT: 35
DEBEORATED	OIL N GAS N PRESSURE	FINAL			_	C. ANAL CORED INTERVAL		CORING RECORD		_	_	GRNL 115	VAL TYPE LOGGE	T GUNS	OGGING RECORD		I 135 PACK	1146. CEMENTED	55 CASI	SET AT HO	AND TUBIN					7.	STAT. LEV. FLOW	E				NATURAL FLOW	2					NATORAL PLO	NATION FILE	2483 INDEX No.		CEMBER 23,	VEMBER 12.	DECEMBER 23,	42-10-26 N	*N:11		3	CONC
OBEN HOI E VES	V. NIL	FINAL RESULTS				INTERVAL REC		30				1150*-1223* DENL	LOGGED INTERVAL TYPE		B		ER	NTED	NG SHOE	HOW SET REC	RECORD					MINERAL	W TYPE					W API GRAVITY	280					on on Pressore	-	X No. 302			1977		650.	4	-	4435	

		COUNTY:				_	TOV	WNSH	IP:	G	0\$	FII	LD	S	TUC	H L	T:	4			С	ONC	ESS	ION		FWI	_			_		AR:	- 1	97	_
	D UI	PR		-	CIAN	+	C	}		Т	D		s	T	JRI	AN				_		_	Т	+	_		_	NIA		IPRT		Sample	3EOL	DRILL	WELL N
	D UNIT EQUIV 7	CAMBRIAN PRECAMBRIAN Total Depth Samples	BLACK	TRENTON			CATARACT				AMABEL															DETROIT		HAMILTON		=	Lake/G	Samples start at	GEOLOGY BY: PETRO	DRILLING CO:	NAME:
	REN IV 755 B UNIT ACIES PRESENT	AN 2458 ft	Coboconk Gull River Shadow Lake	Verulam	Meaford Dundas Collingwood Cobourg	Queenston	Manitoulin	Cabot Head	Thorold	lrondequoit	Rochester	Gasport	Eramosa	evap.	A-1 unit carb	A-2 unit salt	carb	S B unit Sair		C unit	D unit sall		G unit shale	Bois Blanc	Amherstburg	Lucas	Marcellus		Kettle Point	MRTON LORG DOTTOM	Lake/Ground level	107 ft.	NTACTS: TOP	NEWPORT WE	GATCHINK FR
	EQUIV	MQC:		2302	2215	1630	1580	1484			1442	1385	4404	1041	993	990	823	903	851	773	000	555	520	220	162	107				N	9 623	╢	RESOURCE   ELEV	WELLINGTON	NO.1-A GOSFIELD
	870 DYER BAY		CORED		700	LOGGED		4.50#	7.00#	10.7	SIZE				150	TNI			241	240	2					240	N	SPL. TF	ABAND	COMPLETED:			THICK	RIG TYPE:	SOUTH
PROPERTY.	1464 OIL GAS		CORED INTERVAL REC.		700* <b>-</b> 2459* GR	INTERVAL		9.5#	17.0H	40.04	WEIGHT	CASING			•	ERVAL			241424180	*	NTERVAL NATION		_			• 90	INITIAL	385		ETED: SEPJEMBER	:JAI	E: 82-L	TES:		PERN
PRESSURE PRODUCING INTVL. 2 2414 -2418 1	FINAL RE		ANAL CORED INTERVAL	CORING RECORD	GRNL 2386*-2458*	TYPE LOGGED INTERVAL	LOGGING RECORD	SA3 CEMENTED	1474 CEMENTED	CASING	D	AND TUBING RECORD		_	309	STAT. LEV. FLOW	20		MOHS	MOHS	NATURAL FLOW					SHOW FLOW	NATURAL FLOW	INDEX No.	1	MER 23, 1976	23	-	42-02-40 N		200
2402*-2405*	BOPD		AL REC ANAL		458 + OENL	ERVAL TYPE			SHOE 1302	SHOF	ET REC	ORD			MINERAL	TYPE					API GRAVITY					O.L. TAROGOAR	00000	293		10	7	SEQ: 2		623++ 21	4213

		_	JNT	ry:		ES							_	_	ТО	WN	SHI	P:	_	G	0 S	F	E	_	-	-	_	H L	_	_	6	,			co	NC	ESS	SIO	N:	_	WE					Т	YE	E AF	_	~	97	=	5 1	0
D.S.T (S) ON	D UNIT EQUIV 757 SYLVANIA FACIES PR GOAT ISLAND EQUALS	Total Depth Sa	PRECAMBRIAN	CAMBRIAN	77.4	O BLACK	R		TRENTON	10					3	2448404					AMAGEL	0		1	SIL	LU	RI	AN												D CEL XOI	EV	÷	HAMILTON	I	PRT. LAMBTON	Drift/L	Lake/G	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	DRILLING CO:	D	WELL NAME.	COUNTY: ESSEX
	(m co	Samples 2471			Shadow Lake	Gull River	Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Meaford Dundas	Queenston	Whirlpool	Manitoulin	Cabot Head	Grimsby	Thoroid	Reynoles	lrondequoit	Rochester	Gasport	Goat Island	Eramosa		A-1 unit evap	Carb	W. 1110		anhy.	a B unit salt	marker	C unit shale	D unit salt	E unit carb.	F unit shale	G unit shale	Bass Islands	Bois Blanc	Amherethura	Cundee	Morcellus		Kettle Point		Drift / Lake bottom	Lake/Ground level	00		EU.	NEWPORT WELL	GAISWINKL	-	ı
	UNIT EQUIV SENT WIARTON	PH A DR K	Ī						2400	2340	2261	┝	1628		1592	1484					1447	1413	1051		990	+	1	950	626	t	t	857				554	1	363	318	200	100	l	T			2		72	TOP	RESOURCE	WELLINGTON		TIE #2 G	OWNSHIP:
	JIV 875	MQC: 7																																						-				-			429		ELEV. T		Z		GOSFIELD	TOWNSHIP: GOSFIELD
PERFORATED OPEN HOLE YES	OIL S BOPD OAS NIL PRODUCING INTVL.					TERVAL REC. /	CONDITION STORED	CORING RECORD				700"-2471" GRNL 2387"-24691 DENL	L TYPE LO	CO. GREAT	LOGGING RECORD		11.6# 23841	7.00m 1460 CEMENTED	CEMENTE	100 CASING SHOE	SET AT H	CASING AND TUBING RECORD					970	PROME CEV.	WATER RECORD			-	12° SHOW	INTERVAL NATURAL FLOW API GRAVITY	INITIAL OIL RECORD			_		2700	OFFICE NATURAL FLOW S.I. PRESSURE	INITIAL GAS RECORD		i i	AUGUST 17,		TAL: SEPTEMBER 17,	82-45-10 W		CO-ORDINATES: 2924 S: 2 W	CAB ELE	PTH: 2471° PBT.D.	TH G-FWD BERNIT NO.	D SOUTH LOT: 6 CONC. FWD

T	0.0		_	TY	Γ	E S		-	· VI	CI	AP		T	тс	wn	ISH	iP:		M	٩L	DE	N	s	11.0	JR	_	LOT	:	41				COI	NCE	ESS	ION	1:		V	ON	IIA	N	T	Y	EA		GE GE	9		E   0	3
D.S.T.(S) ON	YLVANIA F	Total Depth Samples	TRECAMOR	CAMBRIAN		70 0 C T T T T T T T T T T T T T T T T T	200		TRENTON						CATARACT					AMABEL					_												2 4 6 2	DETROIT			HAMI TON		PRT. LAMBTON	Drift/	Sumples start at	GEOLOGICAL CONTACTS	GEOLOGY BY:	DRILLING CO:	OPER ATOR:	NAME .	COUNTY: ESSEX
7	EQUIV 772 IA FACIES PRESENT	amples + 100 II.	2700		Shadow Lake	Gull River	Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Monford-Dundon	Willipool	Monitoulin	Cabot Head	Grimsby	Thorold	Reynales	Irondequoit	Rochester	Gasport	Goot Island	Gueipn	ечар.	A-1 unit carb.		A-2 unit sall		a B unit salt		C unit shale	unit		un i	G unit shale	Bass Islands	Amherstburg	Lucas	Dundee	Marcellus		Kettle Point	2	Drift/ Lake bottom		70	MUBL	~	POUNDER &	T C	
	ä	REMARKS					2676	2524	2405	2338	2187	1960	404	1645	1563			1557		1545	1420		0777	000	1178	1158	1000	1001	881	840	792		651	547	500	126	25.0	242									RESOURCE	DRILLING			TOWNSHIP:
		S		-							+						-						-																					000	203	ELEV   HICK				3 - 41 - IV	MALDEN
TREATMENT: ACID PERFORATEDYES OPEN HOLE		FINAL RESULTS			NIL	ERVAL RE	CONDITION STORED	CORING RECORD			THE POOR STATE STA	CDM1 23001-27001	INTERNAL TYPE COCCED INTERNAL	LOGGIN	15.0# 25231	1570*	24.0# 541 PACKER	40.5#	48.0# 72   CASING SHOE		CASING AND TUBING RECORD			1067* SOO* SULPHUR		50° FR	INTERVAL STAT LEV FLOW TYPE		2407*-2466* 11 BOPD	45	MOHS		INITIAL OIL RECORD			_	G/174 C7-03 40742=4/142	SHOW	RVAL	INITIAL GAS RECORD	. 38		APRIL 1	SPUBDED: FEBRUARY 10, 1978	ADDIT OF	LATINDE: 4X 10010X X	CO-ORDINATES: 355'5:2270'E	CAB	TOTAL DEPTH: 2703* BBID. *SEC	40.	LOT: 41 CONC. IV

900	Tota	O F	RDOVICIA	N					SIL	URIA	N		I	DE	vo	NIAN		John	GEO	OPER DRILLI GEOL	000
D UNIT EQUI COLUMBUS FA GOAT ISLAND	CAMBRIAN PRECAMBRIAN Total Depth Samples	BLACK	TRENTON		CATARACT		AMABEL							RIVER		HAMILTON	PRT. LAMBTON	Lake/G	GEOLOGICAL CONTACTS:	WELL NAME: OPERATOR: DRILLING CO: GEOLOGY BY:	
V 1023 E CIES PRE EQUALS	AN Imples 2760 ft	Gull River Shadow Lake	Collingwood Cobourg Verulam Kirkfield	Whiripool Queenston Meaford-Dundas	Grimsby Cabot Head Manitoulin	Reynales	Rochester	Goat Island	Guelph	unit	A-2 unit	Gunit shale Funit carb Dunit salt Cunit shale Cunit shale Bunit salf	Bass Islands	Amherstburg	Dundee	Marcellus		1	ONTACTS:	MEYLOW NO.1 ROCHES NEWPORT: JAMES R. PETROLEUM RESOURCE	SEVI AL NO
IN LUCA	MQC:		2435 2554 2611	1870	1715	1697	1683	1535	1320	1280	1204	789 810 955	252	340	118		4	600	TOP ELEV	TER	NOTIFE TO
1150 DYER BAY 1707		CORED INTERVAL NIL		LOGGED INTERVAL		10.75m 40.0H	11		1340*-1350*	153 - 160	INTERVAL	NIL		Z	7	SPL. TRAY No :	COMPLETED:	IAL:	THICK. LATITUDE:	TOTAL DEPTH: 27  RIG TYPE: CO-ORDINATES:	
OIL NIL GAS NIL PRESSURE PRODUCING INTVL.	0.00	REC. ANAL CORED INTERVAL REC	CORING RECORD	L TYPE LOGGED INTERVAL	1717 ·	H 133 CASING SHOE	SET AT HOW	AND THE NAME OF THE PARTY OF TH	262*	28* 50	WATER RECORD TYPE	NATURAL FLOW API GRAVITY			NATURAL FLOW S.I. PRESSURE	NDEX	27,	4	Z	PERMIT No.: 4436 2762* PB.T.D. 600*+ 4 CAB ELEV. 600*+ 4	NC. LIN

~E 1		100		-	TY:		ES	_	_	VI	-	81		Т	OW	NSH	IIP:	SA	NI	DW	I C	Н			RI		от:	 59		_	cc	ONC	ES:	1012	V:	DE	1	ON			T	YE	-	_	197		8
WATER ANALYSIS O	POOR SAMPLE QUALITY	LOST CIRCULAT	000		CAMBRIAN		BIVER	Т	_	T BENTON	Ī				CATARACT					AMABEL			31		- NI										2 4 7 2	DETROIT		HAMILTON	_	PRI LAMBION	Dritt/	Lake/C	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	. Ъ	WELL NAME:
YOTO ON BIT	POOR SAMPLE QUALITY	CIRCULATION ZONE	Compile of	1490		Shadow Lake	Gull River	Coboconk	Kirkfield	Verulam	Collingwood	Meaford-Dundas	Queenston	Whirlpool	Manitoulin	Grimsby	Thorold	Reynales	Irondequoit	Rochester	Gasport	Good Island	Guelph	evap		A-2 unit son		B unit salt	marker		E unit carb		G unit shale	Bass Islands	Bois Blanc	Lucas	Dundee	Marcellus		Kattle Daint	Drift/ Lake bottom	Lake/Ground level	TIU ft.	ONTACTS:	PETROLEUM RESOURCE		DOME
7	-		REMARKS	-									Ī															1350	2	+	1032		870	668	600	121			1		C	n	-	TOP	RESOURCE	PETROLEUM LTD	STORAGE D SAN
				2000																															-							595	000	ELEV THICK.			STORAGE D SANDWICH WEST
				_	_	NIL	CORED INTERVAL	CONDITION			1	20*-1380*		LOGGING CO.:		-		13.38H 54	$\dashv$	SIZE WE	CA				000	NOD .			74.5	INIERVAL	INTERVAL		_			NIL	INTERVAL		SPL TRAY No	ABANDONED:	SPUDDED:	CONFIDENTIAL:	LONGITUDE:	LATITUDE:	CO-ORDINATES:	AL DEPTH:	59-I
PERFORATED	PRODUCING INTVL		FINA		_		REC.	STORED	CORING RECORD		_	D* MSGM	TYPE		LOGGING RECORD	_			4001	WEIGHT SET AT H	CASING AND TUBING RECORD		_			SIAI. LEV. FLOW	70			NAI ORAL FL	INITIAL OIL RECORD						NATURAL FLOW	INITIAL GAS REC	3077 INDEX NO	MARCH 30	MARCH 12	: I	83-04-28 W	42-17-02 N	600 N:1613 W	۰	PERMIT No.
OPEN HOLE	ŗ	NIL	FINAL RESULTS		_		INTERVAL REC		RO				LOGGED INTERVAL		ORD			CEMENTED	Ö	HOW SET REC	RECORD				000	W ITE				API GRAVIII							OW S.I. PRESSURE	П	X No 297	1977					243.412.	7	4328

_			CC	NUC	VTY	:	ES	SE	X					_	тс	1W	<b>I</b> SH	IIP:		SA	N D	WI	C	Н	WE	ST		L	)T:		59			С	ONG	ES	SIC	N:	ı							YE	_	_	197				
D.S.T. (S) ON	1 0 2 F	CRITICAL N	Total Depth Sc	TARCAMONIAN	CAMBRIAN		RIVER	BI ACK		TRENTON	CI	A	3	-		CATARACT					AMABEL	7		5	SIL	UF.	R1 /	A N		_			_						D CELLO	-	01	HAMILTON	_	PRT. LAMBTON	Drift/L	Lake/C	Samples start at	GEOLOGICAL CONTACTS:	DRILLING CO:		WELL NAME:		CLASS: STORA
FILE	n de la companya de l	FACIES PRESENT MISSING SAMPLES	Imples Love !!	1570	2	Shadow Lake	Gull River	Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Manford Dunder	The state of	Monitoulin	Cabot Head	Grimsby	Thoroid	Reynales	Irondequoit	Rochester	Gasport	Goat Island	Eramosa	Gueinh	A-1 unit curb	conty.	A-2 unit salf	carb.		B unit salt	_			F unit shale		Bass Islands	Bois Blanc	Amharathura	Cunded	Morceius		Kettle Point		Drift/Lake bottom	Lake/Ground level	80 ft	100	CORUNNA PE	DOME PETRO	DOME		
		LES	REMARKS																												1350	7	1000	1010	888	862	662	580	9	1 40					15		T	TOP	PETROLEUMS	PETROLEUM LTD	GE C SA	TOWNSHIP:	OOL: SAN
76			S MAC.		-																																									593	H	ELEV THICK	n Ch	0	SANDWICH WEST	SANDWIC	FIELD/POOL: SANDWICH WEST
9	PRODUCING INTVL.  PERFORATED OPEN HOLE		FINAL RESULTS			NIC .	RVAL REC. /		CORING RECORD				N. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	LOGGED INTERVAL TYPE LOGGED INTERVAL TYPE	LOGGING RECORD				54.0# 1	94.0# 400 CEMENTED	SET AT	G AND TUBING						INTERVAL STAT. LEV. FLOW TYPE	WATER RECORD			245	ř	INITIAL OIL RECORD				_		NITI NATURAL FLOW W.I. TREWOORE	INITIAL GAS RECORD	SPL. TRAY No.: 3001 INDEX No. 296		ED:	FEBRUARY 21,	1978	LONGITUDE:	LATITUDE: 4	RIG TYPE: ROT ELEV. 5939+159	PBTD.	T 59-I PERMIT No.:	WEST LOT: 59 CONC:	

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SYLVANIA F HEN SALT P WATER ANAL	Total Depth So	PRECAMBRIAN	CAMBRIAN	2 2	_	T	TRENTON	_		10		_	CATARACT					AMABEL			3		-	Ar	-			_		_					ZIVEZ	1	÷	HAMILTON		PRT LAMBTON	Drift/L	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	DRILLING CO.	WELL NAME:
IA FACIES PRESENT LT PRESENT ANALYSIS ON FILE	Samples 4000 ft.	Edn		Shadow Lake	Gull River	O TRIBIO	Veruiam	Cobourg	Collingwood	Meaford Dundas	Queenston	Whirlpool	Monitoulin	Grimsby	Thorold	Reynales	Irondequoit	Rochester	Gasport	Good Island	Framoso	екар	A-1 unit carb	-	carb		B unit solt		unit	D unit salt	F unit shale		Bass Islands	Bois Blanc	Amherethuro	Dundee	Marcellus		Kettle Point	and contain	Drift/Lake bottom	10 ft	5	PETROLEUM F	CORUNNA PETROLEUMS	DOME STORAGE F
-	REMARKS																										1361		1278	1210	1008	860	663	610	C4 C0	0				H	101		TOP	RESOURCE	ROLEUM	5 F 5 A
	M C C																I																								265	n On	ELEV		,, с	DWICH
	0												1																	1								(0			(2.6)	1	THICK.	ı.	B 10	WEST 5
				NIL	CORED INTERVAL	NOITION				100*-1370*	LOGGED INTER	LOGGING CO.: (				13.38m 54.5m	_		CA					569*- 700*	INTERVAL				NIC	INTERVAL					7.50	INTERVAL		SPL. TRAY No :	ABANDONED:	COMPLETED:	SPUDDED:	LONGITUDE:	LATITUDE:	CO-ORDINATES:	TYPE:	
OIL GAS PRESSURE PRODUCING					REC.	STORED			_	CBND	INTERVAL TYPE	SREAT GUNS	Degina			1372	239 •		CASING AND TO	_				0 4	WATER	2				NATURAL FLOW						NATURA	INITIAL GAS RECORD	2983		APRIL	APRIL	83-04-28	42-17-06	7°N	ROT READ	PERMIT No.
NIL BINTVL.	FINAL RESULTS				ANAL CORED INTERVAL	RECORD					LOGGED INTERVAL		RECORD			CEMENTED	CEMENTED	HOW SET	AND TUBING RECORD					5	WATER RECORD						DE CORD						1			24.	11. 1978	N A CAD	Z		< 0	4409
	ESULTS				RVAL REC		-				TERVAL		-			0		SET REC	CORD					SULPHUR	700					API GRAVITY						S.I. PRESSURE		. 298		77	78	SEQ:			F0F++F	604

POE	Tota	9			۵	R		_	CI	AN	_	Γ			_	P:		-11	- "		_	_	LUF	R1 /	A N	_		5						_	I	_	DE	v	_	_				/EA	S SEC	_	97 DRIL		WELL	COU
SYLVANIA FACIES HEH SALT PRESENT POOR AGREEMENT B WATER ANALYSIS O	Total Depth Sa	PRECAMBRIAN	AMBRIAN	2 4 2	BLACK			TOPING					CATAZAC	2					AMABEL																	RIVER	DETROIT		MANICION	-		PRT. LAMBTON	Drift/L	Lake/C	SENT CONTACTO	GEOLOGY BY:	DRILLING CO:		z	COUNTY: ESSEX
FACIES PRESENT PRESENT EMENT BETWEEN LYSIS ON FILE	Samples 1570			Shadow Lake	Gull River	Cobocook	Kirkfield	Verulam	Cobourg	Collingwood	Queenston	Whirlpool	Manitoulin	Cabot Head	Grimsby	Thoroid	Pondequoit	NOCTION OF	Gasport	Goat Island	Eramosa		A-1 unit evap	anny	A-2 unit salf	carb	s anhy	B unit salt			unit		F unit shale		Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus		Kettle Point		Drift / Lake bottom	Ground level	100	PETROLEUM		DOME	DOME	
	REMARKS					+				on .								1					00	4		6.	+	/ 1370	5	7			878	t	614	335	129	116					15	7	÷ - CT	RE	PETROLEUMS	PETROLEUM LTD	RAGE E SAI	TOWNSHIP:
ND SAMPLES	MQC: 7					1							I															I			+				-		I	I					1	593	ELEV THICK.		on.		SANDWICH WEST	IOWNSHIP: DANGE CH
	FINAL RESULTS				ERVAL REC.	CONDITION	CORING RECORD			1,-12// GRNE 20,-12/0, CBND	L TYPE LOGGED INTERVAL	CO: GREAT GUNS	LOGGING RECORD		9.51	BANK SE OF INOTE CEMENTED	245	WEIGHT SEL AL	CASING AND TUBING RECORD					Z21 SULPHUR	RVAL STAT. LEV. FLOW	WATER						INITIAL OIL RECORD						INTERVAL NATURAL FLOW S.I. PRESSURE	INITIAL GAS RECORD	SPL. TRAY No.: 2760 INDEX No. 299		MAY 10		CONFIDENTIAL: MAY 10, 1978	CALLIOUE. 42-17-06 N	CO-ORDINATES: 1097 N:1733 W	DE:	TOTAL DEPTH: 1578 PBT.D.	59-1	WEST LOT: 59 CONC: I

WELL MANNE BLATK MOT CANNORUS TO TOTAL DEPTH: SERVIT NO.  WELL MANNE BLATK MOT TO REPORT TO TOTAL DEPTH: SERVIT NO.  WELL MANNE BLATK MOT TO REPORT TO TOTAL DEPTH: SERVIT NO.  WELL MANNE BLATK MOT TOTAL DEPTH: SERVIT NO.  WELL MOTOR MOTOR SERVIL NO.  WELL MOTOR MOTOR SERVIT NO.  WELL	_		C	OUN	TY		ΗА	LC	11	1A1	4 D				TO	WNS	HIF	>;		C	A N	во	RC	UG	Н	_	LC	т:	 9			C	NC	ESS	101	V:	1					_	`	YE	AR:		97		_
NAME: BLACK NO.1 CANTIONOMY TO A ATOR: NAME: BLACK NO.1 CANTIONOMY CONTACT NO ATOR: NO CO: MOLECK PELLER B. NO CO: MOLECK PELL			1	١,	, ,	L	(	R	DC	VI	CI	AN	1	L		_	_		_			_	_	SIL	LUE	RI/	A N							_	1	_	DI	Eν	-		N	_			Sam	3EO	DRIL	OPE	E I
NO.   CANDORUGH 9-1			or Deptil or	ZECAMUX.	AMBRIAN		RIVER	BI ACK		TRENTON					3						AMABEL																RIVER			HAMILTON			Drift/L	Lake/G	ples start at	בספור או הד:	LING CO:	D	z
CONDITION   STATLER   TYPE   CASING AND TO GAS PRESURE   PRODUCING CASING C		65 B UN	4 12	545		Shadow Lake	Gull River	Coboconk	Kirkfield	Verulam	Coboura	Collingwood	Queenston	Whirlpool	Manitoulin	Cabot Head	Grimsby	Thorold	Revocies	Cocnesser	Gasport	Goat Island	Eramosa		A-1 unit evap	Carb	unit	carb.	8 unit	Curri	C unit Sall	E unit carb		G unit shale	Boss Islands	Bois Blanc	Lucas	Dundee	Marcellus		Kettle		ake bottom		58	NTACTS:	MOERSCHFELD	BLACK . JAMES	BLACK NO. I
TOTAL DEPTH: \$45* PERMIT No.  RIG TYPE: CAB SELE  RIG TYPE: CAB SE		AINBA		M.O.									1	500		474	439	200	E 1 1	500	342	330		195	400	190		135		03	0	50												59	ŀ		DER F		CANBORUGH
		OIL  OAS PRESSURE PRODUCINO  46.1 * PERFORAT					REC.							100				TT00M 070*	24.02	WEIGHT SET A	CASING AND					a D	VAL STAT. I.EV.	WATER		Z	NATOKAL					101	100	AL.				JANUARY	DECEMBER	AL: FEBPUARY	LONGITUDE: 79-37-12	THICK I ATITIOS: 43-50-3	TYPE: CAB	TOTAL DEPTH: 545	

		-		0 0	Ţ		01	RC	001	/1	CI	AN												SI	LU	RI	ΑN	1									T		DI	EV	01	NIA	N A		Γ	П	Som	GEC	GEC	0 0	WELL	0
		Control Complete		DESCAMBBIAN		RIVER	BLACK		I XEN ION						CHIARACI	2					AMABEL																		DETROIT			HAMILTON		PRT, LAMBTON	Drift/L	Lake/Ground	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	DRILLING CO:	LE NAME:	
			968	2	Citation water	000000000000000000000000000000000000000	Copoconk		Kirkfield	Copourg	Coboundation	Megrorg-Dundas	Queenston	Whirlpool	Manitoulin	Cabot Head	Grimsby	Thorold	Reynoles	Irondequoit	Rochester	Gasport	Comoso Comoso	Guelph	A.I unii evap		anhy.		anhy	B unit salt		C unit				G unit shale	Bass Islands	Bois Blanc	*Lucas	Dundee	Morcellus		Kettle Point		Drift/Lake bottom	around level	62 n	ONTACTS:	PETROL	PLACE GAS		
		REMARKS		1				1					958	950		468	851	833	825	820	752			510				\$00	t		S	357		300		1	130	100	1						0	14	Ī	TOP	RESOURCE	A OIL CO		ш
			MOC: 7								1																																			573		ELEV THICK.			ביייר דיי	п
		-	1		1	CORED IN LEKYA	CONDITION	CONDITION		1	1	NTC.	LOGGED INTER	LOGGING CO.:				1.00m	_	-	SIZE WE	0				109*	657	TO CALL				NIL	INTERVAL				000	9669	0.24	INTERVAL		SPL. TRAY No.:	ABANDONED:	COMPLETED:	SPUDDED:	CONFIDENTIAL:	_			RIG TYPE		101
DEBEODATED	OIL N GAS 650 PRESSURE 3		_			REC.		STORED STORED	CORING		_	_	TYPE		LOGGING RECORD			824*	11.5# 824 P	649	SET A	CASING AND THE		_			0130. tape.	WATER RECORD					NATURAL	INITIAL OIL RECORD	_	_		14000			INITIAL GAS RECORD	2479 11		SEPTEMBER		OCTOBER	79-51-14 W	42-47-49 N		OCP FIFY		TO CONC.
D OBEN HOLE VEC	NIL 65000 MCF/D 375 PSIG INTVL. 824*-	FINAL RESULTS				ANAL CORED INTERVAL H			FCORD				LOGGED INTERVAL		ECORD			HANGING	PACKER	ARECOT	HOW SET	TUBING RECORD			-	SULI	FR		_					RECORD			200	MCF/D	TOT YOU	FLOW S.I. PRESSURE	11	NDEX No. 516		3, 1977	•	3. 1977	V SEQ:	-		v. 573+14+	4.540	1000
V T C	- 866*	-				KEC ANAL	1	-					TYPE					6	600	7	REC					SULPHUR	HAN	2					API GRAVITY							RESS		0					3-0			4		

_		_	OUN	ITY.	_	НΑΙ	_ D	I M.	AN	D		_	TOW	/NSI	tIP:	: 1	LAI	ΚE	ΕI	RΙ	E		_	LC	τ:	_	21		(	CON	CES	SIO	N:		В				_	_	AR		197	_	- 12
		1 1	Total Depth Samp	CAMBRIAN		OBLACK	т	TRENTON		IAN			CATARACT		T			AMABEL		I	SI	LU	RU	A N	_									RIVER	_	ONHAMILION		TRI, LAMBION		Lake/C	Samples start at	GEOLOGICAL CONTACTS:	DRILLING CO:	WELL NAME:	ď
			Samples 948 ft		Shadow Lake	Gull River	Coboost	Verulam	Cobourg	Collingwood	Queenston	Whirlpool	Manitoulin	Cabot Head	Thorold	Reynales	Irondequoit	Rochester	Gosport	Eramosa		A-1 unit evap	carb	A-2 unit sall	carb.	0	line marker	C unit	D unit salt	F unit snore	-	Bass Islands	Bois Blanc	Amherstburg	Dundee	Marcellus		Kettle Point	Drift/ Lake bottom	Lake/Ground level	66 ft.		PLACE GAS	PLACE GAS	שו אכב ו אני
		REMARKS	MQC:								626	917		971	793	783	778	723			475				408			333	1	146	128	103	8	66					28	5		TOP ELEV		& OIL CO	3
			c: 7		NIC	CORED INTERVAL	CONDITION				LOGGED INTERVAL	10,		H000.1		_	-	SIZE WEIGHT	CASING				# N. O.	INTERVAL				NIC	INTERVAL			932*	923*	•	ERVAL	Н	.	ABANDONED:	SPUDDED:	CONFIDENTIAL:	LONGITUDE:	THICK. LATITUDE:	*:	TOTAL DEPTH:	D Transfer
PERFORATED OPEN HOLEYES	GAS 61 MCF/D PRESSURE PRODUCING INTVL. 238*-	FINAL RESULTS				REC. ANAL CORED INTERVAL REC.	STORED	COBING BECORD			L TYPE LOGGED INTERVAL		LOGGING RECORD	946 HANGING	8140	939	67 BAREFOOT	SET A	NG AND TUBING RECORD			C C C C C C C C C C C C C C C C C C C	TREST	STAT. I.EV. FLOW TYPE	WATER RECORD				NATURAL FLOW API GRAVITY				31 MCF/D	19 MCF/D	NATURAL FLOW S.I. PRESSURE		2295 INDEX No. 515	20F1 124 1ALL	JUNE 22, 1977	15,	١.	42-49-54 N	CP ELEV. 573*+15*	PERMIT No.: 4515	CONC.

	ç		Tota	700	,	(	R	DC	V	CI	AP	ı	I		_							_	SI	LUF	RI A	N								_	I		DE	EV	01	IIA		I	T	Som	GEO	GEO	OP	WELL	000
	CXTITCAL	1	Total Depth Samples	PRECAMBRIAN	200	RIVER	BI ACK		TRENTON						CATARACT					AMABEL																23.4 6.2	DETROIT			HAMII TON		PRT LAMBTON	Drift / I	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:		L NAME:	
	MITOCING DAR	5	920	Z	Suggest Care	Gull River	Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Manford Dunda	out poor	Manifoulin	Cabot Head	Grimsby	Thorold	Reynoles	trondequoit	Rochester	Gosport Stand	Eramosa		A-1 unit evap	anhy	A-2 unit sall	carb			Cunit			F unit shale	G unit shale	Bass Islands	Bois Blanc	Lucas	Dundee	Marcellus		Kettle Point	MBTON	Drift / Loke bottom	Ch	NTACTS:	PETROLEUM	PLACE GAS	PLACE NO.2	2
	VAMPLEO	MARKS	11 N									+	200		858	796	785	776	772	713			474	0 0	4	Н	6 403		, ACT	333	+	206		1/6 144		gn							10	1	TOP	RESOURCE	& OIL CO	LAKE	
^			MQC: 7																																								3/3	4	ELEV THICK			E 22-E	10000
					עזר	CORED INTERVAL	CONDITION .				74.0	NA WALL	LOGGED INTERVAL			1.00m	_	8.00m 24	-	SIZE WE				605	145*	INTERVAL				NIC	INTERVAL					. 110	800	INTERVAL	I	SPL. TRAY No :	ABANDONED:	COMPLETED:	SPLIDDEN IAC.	LONGITUDE:	LATITUDE:	CO-ORDINATES:	TOTAL DEPTH:		
PRODUCING INTVL.	GAS					REC.	STORED	CORING RECORD					7 / 05	LOGGING RECORD		918+	776	_	909	WEIGHT SET AT					_	STAT. LEV.	WATER RECORD				NATURAL FLOW	INITIAL OIL RECORD					6.7	NATURAL	INITIAL GAS RECORD	2590	AUGUST	. E	AUGUST			פרביי.		PERMIT No.:	11 00140.
	NIL 3 MCF	FINAL RESULTS				ANAL CORED INTERVAL	ED	RECORD				20000 1111 1111	OCCED INTERVAL	RECORD		HANGING	PACKER	CASING SHOE		SET AT HOW SET	DING DECOR			S T		FLOW	RECORD	_			+	П	_			MCF/U	MCT /D		RECORD	X No.	9	30. 1977	400			.v. 0,0,110	0	4519	٢
806 - 811	MCF/D	TS				REC ANAL							1			918		_	• 06	REC				SULPHUR	FRESH	TYPE					API GRAVITY							S.I. PRESSURE		517				SEQ: 1		TO.	7		

		С	OUN	ITY		H/	L	)	ΜА	N D			_	ΓΟ	/NS	HIP	:		S E	ΝE	C A					LO	т:	9		(	CON	CES	SSIC	N:	١	1.1	۲.				١	YE.	AR:	1	97	_	
D S T (S) ON			Total Death Same	CAMBRIAN	-		R ACK	_	TRENTON	CI	AN			CALARACI		T		T		AMABEL	_		SIL	.U F	A IS	N			 _						RIVER	т	_	HAMILTON	AN	PRT. LAMBTON	Drift/L	Lake/G	Samples start at	GEOLOGY BY: PEIKU	DRILLING CO:	70	WELL NAME MOOR
			588 6		Shadow Lake	Gull River	Coboconk	Kirkfield	Verulam	Cohour	Medrord Dundas	Queenston	Whirlpool	Manitoulin	Cabot Head	- 10000	Thornian	Pondequoit	Cocnester	Gasport	Goat Island	Eramosa		A-1 unit corp	anhy	A-2 unit salt	carb	S B unit Soll	C unit	D unit sall		G unit shale	Bass Islands	Bois Blanc	Amherathura	Dundee	INCOCCETION .	NA CONTRACTOR OF THE PARTY OF T	Kettle Point		Drift/Lake bottom		60 ft.	NTACTS:	MOERSCHFELDER, F.	MOORE, WAYNE	m,
		REMARKS										585	574		J (	214	400	460	414	377	349	250	170				120		60												-		-	TOP	ER, F	m	2 SENECA
			MOC: 6											I																						-						652	H	ELEV THICK	1		NO.2 SENECA 8-9-N.T.
					L	CORED INTERVA	CONDITION	Ī			NI F	LOGGED INTERVAL			_	_	_	8.63m 24	╀						60*	INTERVAL		1	 NIL	INTERVAL		1			400		1	SPL. TRAY No :		Ö		2	LONGITUDE:	CO-ORDINATES	YPE:	TOTAL DEPTH:	
PERFORATED	OIL N GAS PRESSURE 1 PRODUCING INTVL	FINA			_	L REC. ANAL CORED INTERVAL		CORING RECORD		_		TYPE		LOGGING RECORD				24.0H 60° CASING	SET AT	N BO					녀	STAT. LEV. FLOW	WATER RECORD			NATURAL FL	9				N	NATURAL				OCTOBER 7,	SEPTEMBER 1	NOVEMBER 7	79-50-20 w	2700°5: 858°W	CAB ELEV.	590 PBTD	2
OPEN HOLEYES	NIL 2 MCF/D 182 PSIG VL. 465*- 470*	FINAL RESULTS				DINTERVAL REC ANAL		ORD				LOGGED INTERVAL TYPE		ORD				ING SHOE	1	1					FRESH	347T WC	DRO			L FLOW API GRAVITY	CRO				MCL/D 705 L270	S.1. PH	1	NDEX No. 518				1977	SEO: 1	1	652*+ 0*		0144

		-	_	NTY	': T	ŀ	ΙΑΙ	-	-	-		-		_	1	OV	VN:	SHI	P:	S 0		CA	Υl	J G	_				_	эт:	_	1	4		_	со	NCE	SS	108	t:	_	1 V		_	_				AR	_	_	77	_	Ic	21
		0.00	- 1	PRECAMBRIAN	2000	RIVER	-	R	_	TRENTON	С	A	N			CATARACT					_	AMABEL			\$	511	"U F	817	AN			_								21462	DETROIT	I	5	HAMILTON		PRT. LAMBTON	Drift/L	Lake/G	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	DRILLING CO:	WELL NAME:	OUNTY: TAED	COUNTY HALDIMAND
			moles 670 "	2		Shodow Toke	Gull River	Cobocok	Kirkfield	Verulam	Cobourg	Collingwood	Meaford Dundas	Queenston	Whirlpool	Manitoulin	Cabot Head	Grimsby	Thorold	Reynales	Irondequoit	Rochester	Gasport	Goat Island	Eramosa	Guelph	A-1 unit evap	corny.	A-Z unit Sair		on anny	B unit salt	_	C unit	D unit sall	E unit carb	F unit shale	Gunit shale	Boss Islands	Amherstburg	Lucas	Dundee	Marcellus		Kettle Point		Drift/Lake bottom	ake/Ground level	60 ft		PETROLEUM F	PRIDMORE EUGENE	では こうこう こうこう こうこう こうこう こうこう こうこう こうこう こう	THE PROPERTY OF	TMAND
		REMARKS															546	614	590	583		510	460	420	380	330	610	270		230				161		60											0			TOP	RESOURCE	JGENE	D 000	WNUTT	HILIOS SOUTH
			MOC: 7															I										+	+											+								595		ELEV THICK			CMIOGN	CANCA	
מולים ליולים ליו	OIL NIL GAS 12 MCF/D PRESSURE 230 PSIG PRODUCING INTVL. 6051 610	FINAL RESULTS				27	ERVAL REC.	CONDITION STORED	CORING RECORD				ZIC	LOGGED INTERVAL TYPE LOGGED INTERVAL TYPE	LOGGING CO.:	LOGGING RECORD				5.50# 15.0# 550* PACKER	24.0# 60 BARFFOOT	SET A	CASING AND TUBING RECORD				0.0			WATER RECORD					TURA	INITIAL OIL RECORD		_			905 - 610 15 WCF/D 230 PS16	VAL NATURAL FLOW S.I. PR	INITIAL GAS RECORD	SPL. TRAY No.: 2751 INDEX No. 514		MAY 9,	APRIL 1,	E 9, 1977	LONGITUDE: 79-44-53 W	LATITUDE: 42-54-59 N	NATES: 6060 N: 360 W	DET IT.	PERMIT	LOT: 47 CONC. 44	14

		_	OUNTY	/: T		JRC	_			_		1	OV	/NS	HIF	:	ΤL	C k	(EI	RSI	41	ГН	_		LOT	:	2	6		-	CON	CES	SSIC	N:	ı				_				AR:		197	_	< 1c
	COLUMBUS F				RIVER	BI AC	-	TRENTON	CI	AN			CATARACT		T			1	A & A P		S	T	JR	IA	N		_								RIVER	_	T	HAMILTON	AN	PRT. LAMBTON	Drift/	Lake/	amples start at	GEOLOGICAL CONTACTS:	DRILLING CO:	OPER ATOR:	
	EQUIV 1046		IAN 1734 ft	-	Gull River	Coboconk	Kirkfield	Verulam	Cohour	Collingwood	Queenston	Whirlpool	Manitoulin	Cabot Head	Grimshy	Reynoles	Irondequoit	Rochester	Gasport	Goat Island	Eramosa	Gualah evap.	A-1 unit carb		A-2 unit sall		a B unit salt		C unit		E unit carb		Bass Islands	Bois Blanc	Amherstburg	Lucas	Dinden	Moroellie	Kettle Point	Z	Drift/Lake bottom	- 1	72 tt	100	TREMBLAY	FITZGERA	FITZGERAL
	NT IN LUCAS	REMARKS																		1714	1	1682	1547	1542	1507	7801	1157	1131	1070	000	951	814	672	532	414	132	73				UI			TOP	DRILLING	NORMAN	D TUCKERSMITH
	UCAS		M O C:																																							903	-	ELEV	יי		HTIMS
																																											_	THICK	וד ר		TH 2-26-1
					CORED INTERVAL	CONDITION				14C/T-1	LOGGED INTER					10. 121 au	13.38H 54.0H	┖				45.4	250 - 255		INTERVAL				NIL	INTERVAL					;	NI	INTERVAL	SPL. TRAY No.:	NDON	COMPLETED:	SPUDDED:	CONFIDENTIAL:	LONGITUDE:	LATITUDE:	RIG TYPE:	TOTAL DEPTH:	
	PRESSURE N				REC.		CORING	_		GKNL	-	CO GREAT GUNS	LOGGING	_	200		78	SET AT	GAND			300*	250			WATER	_	_		NATURAL FLOW	INITIAL OIL	_		_	_	WATORAL	NATIRAL SAS RECORD	9822	AUGUST	JUL	JUNE	JULY	81-30-23	43-30-3A N	CAB EL	1734 PBID	DEBMIT NO
	NIL NIL	FINAL RESULTS			ANAL CORED INTERVAL	RED	CORING RECORD				LOGGED INTERVAL		RECORD	CENENTED		CASING SHOE	CASING SHOE	HOW SET	TUBING RECORD			-			FLOW	080					RECORD					7 10 1	- 1	NDEX No.	CH	29,	21,	29, 1978		Z	ELEV. 903*+	9	4413
ספקאו איסי ק		LTS			REC. ANAL						CVAL			ì		110	_	T REC	1			FRESH	FRESH	HEBRA	ТҮРЕ					API GRAVITY						o.i. FREGGE	PRESCURE	174					SEQ: 1		4 01		38

Т		0.5	П	ראט	П	ŀ	(E)		00'	VI	CI.	AN	_	Ī	rov	VNS	HIF	): 	C A	MD	E	N I	G 0 !	-	.UR	I A	LO1		4	_	_		C08	ICE	SSI	ON	_	ΧI		NI	AN		Т		AR:		1977	_	CO
D.S.T. (S) ON		COLUMBUS F	Total Depth Sa	PRECAMBRIAN	CAMBRIAN	71 < 17	BLACK		TAPA ON	1000					CATARACT					1	AMABEL																RIVER	DETROIT		HAMILTON	T	PRT. LAMBTON	Drift/L	Lake/C	Samples start at	GEOLOGICAL CONTACTS:	DRILLING CO:	WELL NAME:	COUNTY: KENT
FILE		COLUMBUS FACIES PRESENT IN LUCAS	Samples 640 ft			Shadow Lake	Gull River	Cobocook	Kirkfield	Verillan	Commywood	Meatord Dundas	Queenston	Whirlpool	Monitoulin	Cabot Head	Grimsby	Thorold	Irondequoit	Rochester	Gasport	Goat Island	Eramosa	Guelph	A-1 unit carb	anhy	A-2 unit salt		8 unit	in markey				T LINE SHOW	Bass Islands	Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus	Nemie Point	-	Drift / Lake bottom	Lake/Ground level	140 #	I I		RAR I. PA	
		NT IN L	REMARKS		Ī																									5								512	396	140	211		2			10P	THOMAS L.	PALING 1 C	Ë
TR		S	0																																									615	-	ELEV THICK	n		CAMDEN
TREATMENT:		SAMPLES					CORED INTERVAL	CONDITION		1	1	NIC	LOGGED INTERVAL	LOGGING CO.:			_		8.00m 40	₩	0				512*- 51	339- 35	INTERVAL				NIL	INTERVAL		1	1	L		NIC	INTERVAL	SPL. TRAY NO.	NOONED			IAL:	LONGITUDE:	LATITUDE:	RIG TYPE:		10
FORMATION(S)	PERFORATED	GAS N PRESSURE		_	_		REC	STO	CORING				TYPE		LOGGING				474	SET AT	ြ			_	-	5 20 1		WATER	_	_		NATUR	INITIAL OIL RECORD						NATURAL	CHOZ	OCTOBER	SEPTEMBER	AUGUST 22	SEPTEMBER	82-03-42	42-35-20	CAB EL	PERMIT No.	4 CONC:
	TED OPEN HOLE	E NIL	FINAL RESULTS			$\dashv$	ANAL CORED INTERVAL   REC	STORED	RECORD				LOGGED INTERVAL		RECORD				CASING SHOE		AND TUBING RECORD						FLOW TYPE	250000			$\dashv$	NATURAL FLOW API GRAVITY	78 M CO 70 D						NATURAL FLOW   S.I. PRESSURE	INDEX No. 1208	19//			1978	W SEQ:	2 00	ELEV. 615*+ 2*	,	IIX

		KUNT	ry:	K	EN	T		_		_	1	OV	/NSI	HP:		LΑ	KE	Е	RI	Е			L	от:		176	5	_	C	ONC	ESS	ION	:	S			_			YE A		19	_	
	10101	,	0		O F	RD(	IVC	CI	AN		L	_	_	_		_			_	51	LE	RI.	A N								_	1	1	DE	VC	INC	AN	7-		9	GEO	GEO	OPER /	COOK
	Depth	ECAMB	CAMBRIAN	RIVER	BLACK		TRENTON					CATARACT					AMABEL																	DETROIT		HAMILTON		PRT. LAMBTON	П	Lake/G	GEOLOGICAL CONTACTS	GEOLOGY BY:	OPER ATOR:	
	Samples 6207 ft.			Shadow Lake	Gull River	Kirkfleld	Verulam	Commywood	Meaford Dundas	Queenston	Whirlpool	Manitoulin	Cabet Head	Thoroid	Reynales	lrondequoit	Rochester	Gasport	Goat Island	Guelph		carb	A-2 unit Sant			a B unit solt	a C unit smarker				Gunit shale	Bois Blanc	Amherstburg	Lucas	Dundee	Morcellus	Kettle Point		Drift/Lake bottom		NTACTS:	PETROLEUM RESOURCE	CONSUMERS GAS CO.	
	REMARKS									2228	2223	2191	2071		2060		2021			1738		1716	1704	1644	1622	1478	1436	1 306	1266	1177	1152	944	752	664	521	0	147		9.6	21	TOP	RESOURCE	GAS CO.	13157   AKE
	M 4 C . /				+														+				-					+			-					+				573	ELEV   THICK.	-{	7 4 5	FRIE
		L		NIC	CORED INTERV			.C.77026	98*-227	LOGGED INTER	LOGGING CO.:				9.63m 36	_	SIZE WE	0	1				INTERVAL				110	NTERVAL			1			2100*-2130*	INTERVAL	SPL. IKAY No.:	ABANDONED:	COMPLETED:	SPUDDED:	CONFIDENTIAL:		CO-ORDINATES	TOTAL DEPTH:	6-6
OIL GAS PRESSURE PRODUCING II				700	0000	CORING RECORD		OCNE.	98*-2275* GRNL	RVAL TYPE	SCHLUMBERG	LOGGING		926*		98*		CASING AND TI					SIAI. LEV.	WATER		_	_	MAIORA	INITIAL OIL P				_	0 *	NATURAL FLOW	_		JULY	JULY	AUGUST	42-16-33	ORF ELEV.	2289* RBID	20000
NIL NIL	FINAL RESULTS			CONTROL INC.	COBED INTERVAL	RECORD		1922-1046	98*-2275*	LOGGED INTERVAL	E 20	RECORD		CEMENTED	CEMENTED	HANGING	HOW SET	AND TUBING RECORD					FLOW	WATER RECORD				AFI GRAVITY	RECORD					16	AL FLOW S.I. PRESSURE	S RECORD	15, 1977	14,	8	14, 1977	SEO.	EV. 573*+21	Ö	t

_	× A		1	NT)	T	K	0		00	VI	CI	AN	-	Γ	ТО	_	SHI	P:	L	AK	E	ER	IE	_	LUF	R1 A	LC	т:	 7	5		0	ONC	ES	SIO	N:	U	EV	ON	IIA			7	/EA	_	$\overline{}$	977 DRI OP	WELL	COU
	WATER ANAL	000		PRECAMBRIAN	ANDOIAN	RIVER	BLACK		1014	TERNITON						***************************************					AMABEL													I			7 V H Z			HAMII TON	I	PRT. LAMBTON	Drift/L	Lake/G	SENT CONTACTS:	GEOLOGY BY:	DRILLING CO:	L NAME:	COUNTY: KENT
	ANALYSIS ON FI		3634	2		Shadow Lake	Gull Biver	00000	Kirkfield	Verulan	Cohours	Medford Dundas	Queenston	Whirlpool	Manitoulin	Cabot Head	Grimsby	Thorold	Revocies	Tooler and	Gasport	Goat Island	Eramosa		A-1 unit evap	anny	A-2 unit sall	carb	B unit solt	marker	Unit		unit	G unit shale	Bass islands	Bois Blanc	Amherethura	Dundee	Marcellus		Kettle Point		Drift/Lake bottom	ake/Ground level	UNIACTS:	PETROLEUM	UNDERWATER		
		REMARKS	T	4473	100	4176	J C C C C C C C C C C C C C C C C C C C	3755 2005	2000	100	1111111	S 5000	+		2185	2112	2070	2002	0000	2102	3			1744		1712	+			Wer 1563		0 1372			1136	1038	874	240		944	227		99	22	TOP	ESOURCE	R GAS DEV	34	WNSHIE
		3	MOC. 7																																		-							573	ELEV THICK	4		ERIE	LAKE ERIE
					-	NITE OF THE PERSON OF THE PERS		CONDITION		- C22/1-4320.	000000000000000000000000000000000000000	33101-4526	LOGGED INTERVAL	CO.:			7.00m 20.0r	HO TE HEY B		1					4430.044	1345	ERVAL			NI C	Å						4430 - 4470	INTERVAL	П			Ö		CONFIDENTIAL: SE	LATITUDE:	CO-ORDINATES:	RIG TYPE: OF		LOT: 176
	OIL GAS PRESSURE PRODUCING	-		_		REC. AWAL	_	STORED COM	COBING	7173	100	07.2	TYPE	SCHLUMBERGER	LOGGING	2031	2250	1770	122	100	GAND		_		200.	•	STAT. LEV.				NATURA	ITIAL OIL						NATURA	INITIAL GA	3887		PTEMBER	PTEMBER	SEPTEMBER	4211011		ORF ELEV.	ERMIT No.:	6 CONC:
	NTVL N	FINAL RESULTS				ANAL CORED INTERVAL K	7	10000	SECOSO.	1970-1777-1	. 07Ch	83°-4526°	LOGGED INTERVAL		RECORD	CEMENTED	CEMENTED	HANGING	CEMENTED	HOW SE!	117				SAL	SULPHUR		RECORD			Т	INITIAL OIL RECORD					00 40	NATURAL FLOW S.I. PR	ő	INDEX No. 1204		1-0	6	19. 197A	. 2		EV. 5731+221		0
	2106	-		_		KEC. ANAL						CALP				989		4	2	KEC.						HUR	TYPE				API GRAVITY						מומק	I. PRESSURE						F	-		9 7		

_		_	OUNT	γ:	K	E	-				_	_	_	۲٥١	VNS	HIF	·:	L	٩K	E	ΕR	-	-			_	T:	22	0	_		C	ONC	ES	SIO	N:	F	-		_	_	_	Y	'E Al	_	_	97	7	Io
	GAS ANALYSIS		PRECAMBRIAN Total Depth Samples	CAMBRIAN	RIVER	OBLACK	Т	O' ZEN ON	_	T	AN			CATARACI		T		I		AMABEL			SII	_U F	RIA	N					_	_					RIVER	т-	-	HAMILTON	_	PRT. LAMBTON	Drift/	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	DRILLING CO:	WELL NAME:	COUNTY: NEW!
	SIS ON FILE		IAN amples 2235 ft		Shadow Lake	Gull River		Kirkfield	Copourg	Company	Meaford-Dundas	Queenston	Whirlpool	Manitoulin	Cabot Head	Grimsby	Thorold	Ironaequoir	Rochester	Gasport	Goat Island	Eramosa	Guelph	A-1 unit evap	anhy	A-2 unit salt	carb.	0	Tin Bunit salt	C unit		E unit carb	F unit shale	G unit shale	Bass Islands	Bois Blanc	Amharathura	Dundee	Marcellus		Kettle Point	Z	Drift/ Lake bottom	Ground level	n n	LEUN	UNDERWATER	ONCHARAC	J.
		REMARKS										2212	2208	2190	2126	2070	1000	30.62	2202				1644	1004	929T		1577	1556	STOT	1460		1336	1258	1234	1146	1034	970	197		498	245		100	200	TOP	RESOURC	R GAS DEV	EAS COL	TOWNSHIP:
			MQC: 7		1														-															I	I I		+				I		0.00	573	ELEV. THICK.		<	יב בעזב	ANCER
					NTI	CORPT INTERVAL	CONDITION		930.223	C221.016	100*-2254*	LOGGED INTER	14,	I	_			10./5" 51	╀						1	INTERVAL				NIL	INTERVAL					- C012 - C103	3015. C204	INTERVAL		SPL. TRAY No :	ABANDONED:	COMPLETED:	SPUDDED:	CONFIDENTIAL:		4~	RIG TYPE:	220-1	
7	OIL 1357  PRESSURE 8/7.5  PRODUCING INTVL. 1					חח	STORED	COBING RECORD	C L T 3	200	GKNL	TYPE	CO. SCHLUMBERGER	LOGGING	1705	11.6# 1851	040		SET AT	AND						STAT. LEV.	WATER RECORD		_	_	NATURAL	INITIAL OIL RECORD	_		_		J. 1997	NA	INITIAL GAS	3891		SEPTEMBER	AUGUST	OCTORER TOTAL	42-13-50		ORF ELEV.	PERMIT No.:	LOT: ZZU CONC: F
	NIL 1357 MCF/D 8/7.5 PSIG NTVL. 1656*-1	FINAL RESULTS			1	ED INTERVAL	FO	FCORD	1355*-1/61	1722-1076	100*-2234*	LOGGED INTERVAL	70	RECORD	ANGING	TMENTED OF	CEMENIES	HANGING	HOW SET	1137							RECORD				FLOW	1				17.00	MCF/U 817.5	FLOW S.I.	RECORD	INDEX No. 1207		\$ 0	30 1977	4			V. 573*+22*		
l	'D	S			2	ואיין לפט		1		יראיר			1	I	969	٥		99	REC	2						TYPE					API GRAVITY					2016	5100	PRESSURE		77				-			200		

OR		7	00	L	c	RI	00	VI	CIA	AN								A		_		LUI	R1 A	N									I		DE	vc	INC	AN		T		Som	-	977	_	Ī
ORISKANY A		Denth S	PRECAMBRIAN		RIVE R		1000	TRENTON					CATARACT					AMABEL																RIVER R	DETROIT		HAMILTON		PRT. LAMBTON		Lake/	Samples start at	GEOLOGICAL CONTACTS:	DRILLING CO :	OPER ATOR:	ш
AT BASE OF BO		Somples 2257 ft	P	Shadow Lake		Coboconk	Kirkfield	Verulan	Collingwood	Meaford Dundas	Queenston	Whirlpool	Manitoulin	Grimsby	Thorold	Reynales	Irondequoit	Rochester	Gasport	Eramosa	Guelph	A-1 unit evap	anny	A-2 unit salt	carb.	1	B unit salt	C unit			F unit shale	G unit shale	Boss Islands	Amherstburg	Lucas	Dundee	Marcellus	Nettle Point		Drift/Lake bottom	Lake/Ground level	240 ft.	EOM	UNDERWATER	CONSUMERS	CONC
BOIS BLANC	REMARKS	MOC									2224	2221	2000	2002	2076	2062		2025			1688	0000	259T		1600	1580	1000	1432		1304	1224	1200	1020 1020	816		732	410	240	2	t	21 573	-	KE SOURCE	GAS DEV	GAS CO.	- 12
	FINAL RESULTS			ZIC	ERVAL RE	CONDITION STORED	CORING RECORD		0 0 0	*-2255* GRNL 84*-2255*	INTERVAL TYPE LO	LUMBERG	LOGGING RECORD					SET A	CASING AND TUBING RECORD				TOGO.	RVAL STAT. LEV. FLOW	WATER RECORD			NIC	AL NATURA	INITIAL OIL RECORD		000	COL FC7/0 883	812 PS	MOHS	INTERVAL NATURAL FLOW S.I. PRESSURE	INITIAL GAS RECORD	NOONEO:	JUNE	JUNE 25,	AL: JULY 30, 1977		40=12=51	ORF ELEV.	AL DEPTH: 2257	1 - C - C - C - C - C - C - C - C - C -

	OUNTY:	KEI	_			_	TO	NWC	SHIF	):	LA	KE	EI	RII	E			LOT	:	22	1		С	ONO	CES	SIOI	W:	_	L				,	YE A		197		To
SPRINGVÂLE AT I	PRECAMBRIAN	RIVER	1	TRENTON	AN			CATARACT	T			AMABEL			SII	_U F	RIA	N									214 62	DETROIT	V	HAMILTON	AN	PRT, LAMBTON	Drift/L	Samples warray	GEOLOGICAL CONTACTS:	GEOLOGY BY:	OPER ATOR:	
	2280	Shadow Lake	Kirkfield	Cobourg	Meaford Dundas Collingwood	Queenston	Whiripool	Cabot Head	Grimaby	Thorold	irondequoit	Rochester	Gasport	Eramosa		A-1 unit evap	anhy	A-2 unit sall		B unit solt	0	C unit shale	E unit carb		Gunit shale	Bass Islands	Bois Blanc	Lucas	Dundee	Marcellus	Kettle Point		Drift/Lake bottom	level	ONTACTS:	LEUM	CONSUMERS	CONCLINEDO
BOIS BLANC						2232	2230	2118	2092	2068		2032			1679	4004	1646	1	1595	П		1458	LOCU	1250	1224	1102	306	830	709	144	201		99	22 573	TOP ELEV	JRCE	CO.	IOWNSHIP: CANC
		CORED INTERVAL RI	CONDITION		906*-2279*	LOGGED INTERVAL	CO. SCH		_	7-00H 36-0H		SIZE WEIGHT	CASING					INTERVAL S				NIL	1				20819-01200	1720 - 1720	INTERVAL	UT TO THE TANK				CONFIDENTIAL: SE		CO-ORDINATES:	TOTAL DEPTH: 228:	CATC COL
OIL NTL RESULTS OIL NTL PRESSURE NTL. PRESSURE INTVL.		REC. ANAL CORED INTERVAL REC.	CORING RECORD		DENL 100'-2279'	RVAL TYPE LOGGED INTERVAL	LIMBERGER		CEMENIEO.	251 CEMENTED	99	-	AND					STAT. LEV. FLOW TYPE	WATER RECORD			33	ELOW API				000	9,45 MCF/D 819		INITIAL GAS RECORD	30° 1977	AUGUST 28, 1977	22,	PTEMBER 28, 1977	ξ Ζ		2281* RBTD. 4042	AC: F

	COUNTY:	ORDOV	/ICIAN	NSHIP: L	AKE ERIE	LOT: 222	t	DEVONIAN	YEAR: 1977 WELL TO GEOLOG
	CAMBRIAN PRECAMBRIAN Total Depth Samp	BLACK	CATARACT		AMABEL		RIVER R	Drift/L PRT. LAMBTON HAMILTON	13 15 15 0 7 2 1 1
	les 2257 ft.	Verulam Kirkfield Cabaconk Gull River Shadow Lake	Manitoulin Whirlpool Oueenston Medford Dundas Collingwood Cobourg	Reynales Thorold Grimsby	Guelph Eramosa Goat Island Gasport Rochester Irondequoit		Amherstburg Bots Blanc Boss Islands Gunit shale Funit shale E unit carb. Dunit sall	AMBTON  Kettle Point  LTON  Marcellus  Dundse  Cucas	WERS WERS WERS
	MQC:		2216 2216 2220	2062 2078 2086	2036	1484 1524 1579 1612 1626 1680 1702	906 1054 1134 1247 1270	244 480 678 834	WNSHIP: L/ 3173 LAKE AS CO. AS DEV ESOURCE TOP ELE
OAL NIL OAS NIL PRESSURE NIL PRODUCING INTVL. PERFORATED OPEN HOLE	C: 7 FINAL RESULTS	CONDITION STORED  CORED INTERVAL REC. ANAL CORED INTERVAL REC	LOGGING CO: SCH_UPRERGER  LOGGED INTERVAL TYPE LOGGED INTERVAL  72*-2150* GPNL 72*-2150* 906*-2148* DIFM 910*-2137*	7.00H 20.0H 906* CEMENTED	CASING AND T	WATER RECORD	INTERVAL NATURAL FLOW API GRAVITY	SPUDDED: JULY 3, 19  ABANDONED: JULY 8, 19  SPL.TRAY No.: 1935 INDEX NO. INTERVAL INTIAL GAS RECORD INTERVAL NATURAL FLOW	LAKE ERIE 222-D LOT: 222 CONC: D 4494  E ERIE 222-D FERMIT No.: 4494  TOTAL DEPTH: 2557* REED. 573**22*  CO-ORDINATES: 0RF ELEV. 573**22*  LEV   THICK   LATITUDE: 42-14-30 N SEC: 1-33-11 W SEC: 1-35-11

		С	OU	NTY	:	K	ΕN	Т					_	Т	OW	NS	HIF	:	LA	٩K	E	ER	l I E				LO	т:	2	2:2:	2		c	ON	CES	SSI	ON:		М						_	YE A	R:	19	97	7		
			킪	0 0	,		OR	DO	_	ıc	A	N	4		0	_	_		_	_			_	SI	LUI	RI A	N									_	L		DE	V		-	_	_		9		GEO!	DRIL	OPE	WELL	COU
			Total Depth Sa	PRECAMBRIAN	2	RIVE R	BLACK		TRENTON						CATARACT						AMABEL																	RIVER	DETROIT		1	TON TON		PRT, LAMBTON	Drift/L	Lake/G	Service of the contract of the	GEOLOGI BY:	DRILLING CO:	ъ	L NAME:	COUNTY: KENT
			Samples 2278 #	2	SUGGON LONG		Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Meaford-Dundas	Queenston	Whiripool	Monitoulin	Cohot Hand	Grimahy	Taynola	Frondequoir	Kocnester	Gasport	Goat Island	Eramosa		A-1 unit evap	anny	A-2 unit sall	carb.		B unit salt	0	C unit shale	100	unit		Bass Islands	Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus		Kettle Point		Drift/Lake bottom	ı	242 #	EOM	ONUCKWAICK	CONSUMERS G	CONSUMERS	
		REMARKS	-									Ī	2252	2000	2000	2160	2000	2002	2	2002				1714	200	1676		1620	1598	П	1550	1	1040	1266	t	1096	1008	899	810	679		489	243		101	22		XC SOUNCE	DECUMBUS DE	GAS CO.	3196	OWNSHIP:
			MQC: 7				-							-				-			-	_			-	-					-		-	-									I			573	0.00	11 11			LAKE ERIE 222-M	LAKE
DESEGRATED	GAS PRESSURE PRODUCING IN	1.1			215	RVAL REC.		CORING RECORD		DIPM	*-2276* DENL	*-2276 * GRNL	INTERVAL TYPE	LOGGING CO.: SCHI LIMBERGER	Dagina BECORD		TTC	200000000000000000000000000000000000000	101	WEIGHT SET AT	CASING						INTERVAL STAT. LEV. F	WATER RECORD			246	20000	INI I IAL OIL					1645°-1720° 30 M	_		INITIAL	SPL. TRAY No.: 1851 IN	AUGUST	ED: JULY	JULY	AL: AUGUST	IONGITIDE: A1-32-42 W	LATITUDE: 43-13-47	ORT	AL DEPTH: 2278	PERMIT No.:	LOT: 222 CONC:
	NIL NIL	FINAL RESULTS	_			ANAL CORED INTERVAL REC. ANAL		CORD			920 -2263   LATL	991-22761	LOGGED INTERVAL TYPE		70080		MENIEU	CEMENTED	HANGING 101*	- C	CORD						FLOW TYPE	CORD				27.00	- 6						-	FLOW S.I. PRESSURE		×		31, 1977	*	31, 1977	SEO.		5/34+224		4501	3

_			col	JNT	γ:		KE	NT							т	w	ISH	IP:		LΑ	ΚE	Ε	R	ΙE				LOT	T:	2	22			CI	ONC	ES	SIOI	N:	٧						Υ	EAI	₹:	19	77		
cı	¥ (	S	Total	9	C		0	R	00	٧I	CI	AN	1	1						_			_	S	IL	UR	IA	N											DE	٠v	01	AII		_	I	Sam	GEO	GEC	000	MELL	COU
D.S.T. (S) ON	WATER ANAL	SPRINGVALE	Depth	PRECAMBRIAN	AMBRIAN	7	BLACK			TREATON						CATARACT					AMABEL																		BIVER			HAMILTON		PRT. LAMBTON	Lake / C	Samples start at	GEOLOGICAL CONTACTS	GEOLOGY BY:	OPER ATOR:	z	COUNTY: KENT
FILE	YSIS ON F	AT HASE OF	les 4710	AN		Shadow Lake	Gull River	Coboconk	Xirkfield	Verulam	Cobourg	Collingwood	Morford Direct	Whiripool	Manitouin	Cabot Head	Grimsby	Thorold	Reynales	Irondequoit	Rochester	Gasport	Goat Island	Eramosa	does	A-1 unit carb	anhy	A-2 unit sall	Cart	_		C unit	uni*			G unit shale	Bass Islands	Bois Blanc	Lucas	Dundee	Marcellus		Kettle Point	MBTON	Lake / Ground level	00	2	LEUM	CONSUMERS	CONSUMERS	I
	771 ( 0	REMARKS		4662	4305	4298	3960	3872	36.00	1022	3470	2000	+	0100	8822	2022	2168	2158	2147		2102			100	+	1680		-	1626	+	TOCT	۲		1349	-	Н	1092	1003	55.00	209		407	225	***	100	11.	TOP E	RESOURCE	GAS CO.	13176 LAKE	TOWNSHIP: LAKE ERIE
TREATMENT:		NO.	MQC: 7																																										0		LEV THICK.		. 7	E ERIE 222-V	LAKE ERIE
MENT:						_	CORED INTERVAL I	CONDITION	. 0.4.7	1411-17401	23160=12051	40147-100 01/10-06	LOGGED IN ENAME	I۳		4.50H   11.6			13.38m 48.0#	_	SIZE WEIGHT	CASING				4622*-4662*		INTERVAL				NIL	INTERVAL					45801	7777 - 7007	INTERVAL		-	ABANDONED:	COMPLETED:	AL.			CO-ORDINATES:	AL DEPTH:		LOT: 222
FORMATION(S)	PRESSURE 8 PRODUCING INTVL			_	_		REC. ANAL CORED	STORED	NG RE	_	_	GANE	100	CO: SCHEUMBERGER	l e	1641	2350 *	925*	2871 CEMENTED	100+	SET AT	G AND TUBING				31400			WATER RECORD				NATURAL FLOW					SHOW	70 MCF	NATURAL FLO	NITIAL GAS RECORD	3883 INDEX No		AUGUST 16.	-	M 42-12-18	42-10-49 N		PBTD.	T No.	22 CONC: V
	815 PSIG R. 1697 1712	NTI	_				CORED INTERVAL   REC. ANAL		CORD		מיים ביים באינ	• •	14100470	INTERVAL	ORD	NTED 99*	_	NTED	NTED	ING 100*	HOW SET REC.	RECORD				SALT		N TYPE	20				W API GRAVITY	7		_	_		100 BIS PSIG	S.I. PF		K No. 1200		1977	1978	SEQ: 1			1747"	4497	

	COUNTY	KEN	Г	то	WNSHIP:	LAKE E	RIE	LOT: 22	3 CONCES	SSION: P		YEAR: 1977
	Total pin	-	DOVICIAN		<u> </u>		SIL	URIAN		DEVO		WELL OPER DRILLI GEOLC GEOLC Sample
	PRECAMBRIAN Total Depth Samp		TRENTON		CATARACT	AMABEL				1 1 1 1 1	PRT. LAMBTON	S S G G A A A
	Samples 2400 ft.	Coboconk Gull River Shadow Lake	Meaford Dundas Collingwood Cobourg Verulam Kirkfield	Whiripool  Queenston	Thoroid Grimsby Cabot Head	Gasport Rochester Irondequoit	Guelph Eramosa Goat Island	B unit salt on anhy.  A-2 unit sall anhy anhy anhy anhy anhy	F unit shale  F unit carb  D unit salt  C unit shale  marke	Dundee Lucas Amherstburg Bass Islands	AMBTON Kettle Point	ONSUMERS ONSUMERS NDERWATE ETROLEUM ACTS: 250
	RM A R K S			2320	2162	2124	1808		1297 1321 1416 1536	661 820 880 1050	215	IJI72 LA GAS CO. R GAS DEV RESOURCE
	Mac: 7											KE ERIE
		CORED INTERVAL	100°-2397° 950°-2397° 959°-2397°	LOGGED INTER	7.00m 20	(0)=		INTERVAL	NIL	NIL	SPUDDED: COMPLETED: ABANDONED: SPL.TRAY No.:	TOTAL DE RIG TYPE CO-ORDIN LATITUD LONGITUE
PRESSURE PRODUCING INTVL		REC. ANAL	7° GRNL 100° 7° DENL 967° 7° DIPM CORING RECORD	LOGGING RECORD SCHLUMBERGER VAL TYPE LOGGED IN	20.0H 2450			WATER RECORD	NATURAL	NATURAL	JULY JULY JULY	PERMIT NO.: PTH: 2402* PB.TD ORF ELEV. ATES: 42-11-45 N E: 42-13-43 W NTIAL: AUGUST 2
NIL NIL	FINAL RESULTS	CORED INTERVAL REC	100°-2397° 967°-2383°	CO: SCHLUMBERGER  INTERVAL TYPE LOGGED INTERVAL	CEMENTED	AND TUBING RECORD SET AT HOW SET 100 HANGING		RECORD TYPE	RECORD API GRAVITY	S RECORD  N. FLOW S.I. PRESSURE	DEX 1.	

	0101	1	0		0	RI	DO	٧I	CI	AN	_	L			_		_			_	s	IL	UR	IA	N										_	-	-	NIA			T	Som	GEO	DRIL	OPER	100
	Total Depth Sa	PRECAMBRIAN	AMBRIAN		RIVER	200		TRENTON					CATARACT						AMABEL																RIVER	PERSON		HAMILTON		PRT. LAMBTON	Drift / I	Samples start at	GEOLOGICAL CONTACTS:	DRILLING CO:	OPER ATOR:	
	Samples Load to			Shadow Lake	Gull River	Coboconk	Kirkfield	Verillam	Cobourd	Meatord Dundas	Queenston	Whirlpool	Manitoulin	Cabot Head	Grimsby	Thoroid	Irondequoit	Rochester	Gasport	Goat Island	Eramosa	ечар	A-1 unit carb	anhy	A-2 unit sall		Sa B unit salt		C unit shale		E unit carb	Funit shale	Bass Islands	Bois Blanc	Amherathurg	Dundee	Marcellus		Kettle Point	MBTON	Drift / Lake hottom	46	NTACTS:	PETROLEUM	CONSUMERS	ш
	REMARKS	-							+	G9					+						010	$^{+}$	+	1782		6 1740	+	3	/e 1606	Н	6 1470	+		1118	935	870	300	466	230	•	100	1	ТОР	RESOURCE	CONSUMERS GAS CO.	지
	M.C.																																								070	2	ELEV THICK.			F FRIF 242-K
				NIC	CORED INTERVAL	CONDITION				894-1883	LOGGED INTE	10,				7.007 3		+							INTERVAL				NIL	INTERVAL					7	NITI	NA PEDVA	SPL TRAY No .:	ABANDONED:	COMPLETED:	SPUDDED:	LONGITUDE:	LATITUDE:	CO-ORDINATES	TOTAL DEPTH:	
GAS PRESSURE PRODUCING IT				_	REC.	STORED	CORING RECORD	_		85 GKL	RVAL TYPE	CO: SCHLUMBERGER	LOGGING RECORD	_	001.	36.0# 246	1004	SET AT	GAND			_			ST	WATER RECORD	_				INITIAL OIL RECORD				_	1	INIT			טטר א		81-35-24	42-07-38	ORF	1888* PBTD.	DADAH NO.
NIL	FINAL RESULTS				ANAL CORED INTERVAL	ED	RECORD				LOGGED INTERVA	E/R	RECORD		COMENTED	CEMENTED	HANGING	HOW SET	L CO						FLOW	RECORD				L FLOW API GRAVITY	RECORD			_		NATURAL FLOW S.I. PRESSURE	10	INDEX No. 1205	26,	25, 1977			Z	EV. 573*+22	Ö	donn

		COUNTY:	KEN	Т		7	OWN	SHIP	:	0 R	F0	R D				LO.	Γ:	18	3		СО	NCE:	SSIO	N:	٧	1 1	ı			Y	EAR		977	10
	SPR	Tota P	OR	DOVIC	IAN	╀	0		_			_	SI	LU	RIA	N								_		V	וואכ	AN			Samp	GEO	OPER OPER	COUNTY
D.S.T. (S) ON	UNIT EQUIV DLUMBUS FACI PRINGVALE AT	CAMBRIAN PRECAMBRIAN Total Depth Samples	BLACK	TRENTON			CATARACT				AMABEL													1000	DETROIT		HAMILTON		PRT. LAMBTON	Drift/L	Samples start at	GEOLOGICAL CO	OPERATOR:	COUNTY: KENT
FILE	D UNIT EQUIV 1383 B UNIT COLUMBUS FACIES PRESENT SPRINGVALE AT BASE OF BO	mples 1801 f	Gull River Shadow Lake	Cobourg Verulam Kirkfield	Meaford Dundas	Whiripool	Manitoulin	Grimsby	Reynales	irondequoit	Gasport	Goat Island	Guelph	A-1 unit evap	carb	A-2 unit sall		a B unit sall	0			F unit shale	Bass Islands	Bois Blanc	Lucas	Dundee	Marcellus	Kettle Point		Drift/Lake bottom	210 #	3	MID-NORTH ENG.	VE 1 7
	IN E												1792	Н	1745	Н		1486	13	+	1280	+	H	828	537 728	Bhh	107	000		4		RESOURCE	Z ^	WNSHIP
	BLANC	MQC: 7								-										-				-						601	700	ELEV	2	
TREATMENT:			CORED INTERVAL		1*-1799*			_	8.63#	_	35			1801	220	INTERVAL			2	INTERVAL					1752*-1759*	INTERVAL	SPL. TRAY No.:	ABANDONED:	COMPLETED:	SPUDDED:		CO-ORDINATES:	TOTAL DEPTH: RIG TYPE:	
PERFORATED	OIL N GAS N PRESSURE PRODUCING INTYL		REC.	CORING RECORD	GRNL	CO. GREAT GUNS	LOGGING	1169	24.0# 450*	2120	_ω			1790	1000		WATER	-		NATURAL	IN.				759° SHOW	NAT		S						
ED OPEN HOLE	NIL NIL		ANAL CORED INTERVAL REC	RECORD		OCCED INTERVAL	RECORD	PACKER		CASTNG SHOP	, EC		_	SALT			RECORD			L FLOW API GRAVITY	RECORD				OW WO	L FLOW S.I. PRESSURE	S RECORD	29, 1977	21,	17,			ED. 709*+ 4	VIII

Τ	000		JNT	Т		E N		0\	/10	217	A N		Γ	TO	WING	51411		01	(F)	O R	D	_	SII	LUI	RI.	_	.OT :	-	23	_	_	_	COP	ICE	SSI	T	_	DE	-	ON	IIA	N	T	T	-	-	197	_	WELL	CO
	UNIT EQU DLUMBUS F RISKANY A	Total Depth Sa	PRECAMBRIAN	CAMBRIAN	RIVER	BLACK		TRENTON						7777	3					AMABEL															I		RIVER	DETROIT		1	HAMILTON		PRT. LAMBTON	Drift/L	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	DRILLING CO:	LL NAME:	COUNTY: NEW!
	D UNIT EQUIV 1542 B UNIT COLUMBUS FACIES PRESENT ORISKANY AT BASE OF BOIS	Samples 1827 ft	AZ		Should loke	Coboconk	Kirktield	Verulam	Cobourg	Collingwood	Meaford Dundas	Queenston	Whirlpool	Manitoulin	Cabot Head	Grimsby	Thoroid	rondequoir	Rochester	Gasport	Goat Island	Eramosa	Guelph	A-1 unit evap	carb	Are unin 2.4		un anhy.	B unit salt				_	Funit shale	Gunit shou	Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus		Kettle Point		Drift Lake bottom	round level	72.0	EUI	RAWLINGS DRILL	NEW KELORE	
	NIT EQUIV 1	AARKS		+	+											1							1790	0	1745	1710	1658	+		1599	+	+	1439	+	t	2000	287	604	462		233			.4	1	TOP	11.1	DRILLING	)-e	MNSHIF
	1628 AS	MQC: 7							-																1																			6	713	ELEV THICK			ORFORD 1-23-IX	
				-	CORED INTERVAL	CONDITION			1	1	1*-1771*	LOGGED INTERVAL	LOGGING CO.: GRE				7.000 24.00	_	╄					*05.7	10000	LAND O TAKE	MTERVAL				NIC	INTERVAL			_	1	L	1745*-1749*	INTERVAL		SPL. TRAY No.:	ABANDONED:	COMPLETED:	SPUDDED	CONFIDENTIAL:	LATITUDE	CO-ORDINATES:	RIG TYPE: (		LOT:
PERFORATED	OIL N GAS N PRESSURE PRODUCING INTVL	FINAL			REC. ANAL CORED INTERVAL	1	CORING RECORD		_	_	GRNL	L TYPE LO	AT GUNS	LOGGING RECORD	_		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	THE 239 CASING	SET AT	GAND					100.	A SO P FLOW	20		_				INITIAL OIL RECORD					MOHS	NATURAL FL	INITIAL GAS RECORD	2368 INDE	JULY 27.		HINE 7	W 65=4h=Te	42-33-33 N	360°5: 360°E	CAB ELEV	PERMIT No.	CONC: 1X
OPEN HOLE	VIL NIL	RESULTS			INTERVAL REC. ANAL		RO				1640*-1771* DENL			ORD				SHOE	SET	l ta				סארו	SOL THOX						+	OW API GRAVITY	ORD						FLOW S.I. PRESSURE		×		1977		1077			7130+ 30	4507	

	C	COUNT	Υ:	K	E N	т						_	rov	WNS	SHII	P:	R	ΑL	ΕI	G F	ł				ι	.OT	:	4			СО	NC	SS	101	N:	Х		_		_			YE	AR:		1977		
D.S.T. (S)	D UNIT E	PRECAMBRIAN Total Depth Samp	CAMBRIAN	RIVER	O BLACK	0	OTRENTON		I A	N			CATARACI	1			T		AMABEL		Γ	SI	LU	RI	At	V	_				_		T			DETROIT	_	_	HAMILTON	AN	PRT, LAMBTON	Dri	Lat	Samples start at	GEOLOGICAL	DRILLING CO :	WELL NAME:	COUNTY K
ON FILE	ST ALMENT	BRIAN Samples 3734 ft	ŀ		Coboconk	KITKTIGIO	_	_	Collingwood	Meaford Dundas	Queenston	Whirlpool			Grimsby	Thorold	Reynales	Irondequoit	Rochester	Good Island	Eramosa	Guelph	evap	A.1 min carb	-	A-2 mait sall		B unit	C unit	D unit soll	E unit carb.		G unit shale	Bose letande	Bois Blood			-	_	Kettle Point	NOT	Drift/Lake bottom	Ground level	at 100 tt	NTACTS:	RAWLINGS	E: PINETREE	
	EQUIV OG AND		3703	3695	3220	2020	1262	6282	2707	╀	2012		1983	1843				*000	1800	1760 C/01		1468	Н	1422	+	4004	+		1232	Н	1078	-	080	200	730	700	500	447	206	100		4	609		TOP ELEV	DRILLING	G	HIP:
TREATMENT:	FOSSIL HILL 1828 LES			CORED INTERVAL REC						2800*-3721*	LOGGED INTERVAL	LOGGING CO.: GREAT		_	7.00# 20.0#		10.75 # 40.0#	-		CACINO			•	515*	0	INTERVAL ST				INTERVAL	INI					2535-350-	INTERVAL		SPL. TRAY No : 38	ABANDONED:	COMPLETED:		AL:	LONGITUDE:	- 1	TOTAL DEPTH: 3734° RIG TYPE: CAB CO-ORDINATES: 1650		RALEIGH LOT: 4 CONC:
PERFORATED OPEN HOLE	NAC NI			C. ANAL CORED IN ERVAL REC. ANAL	STORED	CORING RECORD				GRNL	TYPE LOGGED INTERVAL TYPE	GUNS	LOGGING RECORD		CEMENTED	DACKER	THE CACTUR SHOE TEN	TO CACTUC SUCE	SET AT HOW SET REL			653° SALT	300° SALT		FIZ	STAT LEV FLOW	EA4110			NATURAL FLOW API GRAVITY	TIAL OIL RECORD					SHOR	NATURAL FLOW S.I. PRESSURE	INITIAL GAS RECORD	3875 INDEX No. 1197	MAY 19,	MAY 9, 1977	18,	E 9, 1977		12-16-05 N	734° RBTD. CAB ELEV. 609°+ 4° 1650°C: 495°F	AIT No.:	CONC: X

		2	Total	T	T	T	KE	_	-	ov.	10	ΙA	N		_		NSH							s	LU	RI	AN						_		_			DI	EV	10	NIA	_		П	5	S GEO		97 DRI	_	
		COLUMBUS F	Depth	ECAMI	CAMBRIAN		RIVER	BL ACK		TRENTON						CATARACT					AMABEL																	RIVER.			HAMILTON		PRT. LAMBTON	Drift/L	Lake/G	Samples start at	GEOLOGY BY:	DRILLING CO:	OPER ATOR:	
		FACIES PRESENT	Samples 434 ft	100		Shooper Lake		Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Meaford Dundas	Queenston	Whirlpoot	Cabot Head	Grimsby	Thorold	Reynales	Irondequoit	Rochester	Gasport	Goot Island	Framosa		_	anhy anh		s anny	B unit salt	9	5	Dunit carb.	F unit shale		Bass Islands	Bois Blanc	Lucus	Dundee	Marcellus		Kettle Point		Drift/Lake bottom	- 1	107 ft.	MUB	0	MARSH THOMAS	DAD KASTE
			REMARKS																																			400	267		107			0		100	10	MAS L.		
		IN LUCAS	NWC.		I							Ī																																	626	ברביי	N 10 10			ZONE A-D-V
				1												-						1					1	-				1	+	-					L	L	100	D		(0)	0	HICK		RIG		_
						MIL	CORED INTERVAL	CONDITION					Z	LOGGED INTERVAL	LOGGING CO.:				8.00н	10.00m	SIZE WE	0,0					6.50	INTERVAL				4 UE 1 - 4 E C E	INTERVAL					000.1			SPL. TRAY No.:	ABANDONED:	COMPLETED:	SPUDDED:	CONFIDENTIAL:	LONGITUDE:	CO-ORDINATES:	G TYPE:	TOTAL DEPTH:	
	PRESS	OIL	-		_	_	REC.		CORII		_	_	$\dashv$	VAL TYPE	1000	_			1079	-		CASING AND	_				0.71. 10.4.	WATE	_			+	NITIAL			_			+	INITIAL	2583	NOVEMB	NOVEMB	OCTOBER	NOVEMB	81-56-42	1 C 2		454 *	
	PRESSURE INTVL	2	FINAL			_	ANAL CORED INTERVAL	TORED	CORING RECORD									_		CASING	WOH TA	AND TUBING RECORD					*-	70					NATURAL FLOW						NATURAL FLOW		NOEX	19,	140	17,	14.	į z	350 °E	LEV.	PBTD.	10.
	11	NIC	RESULTS	_	_	_			0					LOGGED INTERVAL	-	5				G SHOE	W SET	RECORD					FRI		-			+		3					+	11	No. 1210		1977	1977	1978	SEQ:		626*+	000	2620
•			"			_	REC. ANAL			-	_	_		TYPE		$\mid$	_		490	2	REC						2	1				0	API GRAVITY						S.I. PRESSORE		0				,	-		0		

	COUNTY	1			TOV	VNSH	P: 1	BRO	001	ΚE				_	от	:	5	-	_	_	со	NCE	SS	101	V:	X				_			YE			197	_	10
D UNIT EQUIV	PRECAMBRIAN Total Depth Samples	)	DOVICIAN		CATARACT				AMABEL		S	LU	RI	AN	_							_	T			DI CH- XC-	_	-	HAMILTON	AN	PRT. LAMBTON	Drift/L	Lake/G	Samples start at	GEOLOGICAL CONTACTS:	DRILLING CO:	OPER ATOR:	-112
IV 1322	anples 1737 ft	Gull River Shadow Lake	Collingwood Cobourg Verulam Kirkfield	Queenston	Manitoulin	Grimsby Cabot Head	Reynales	Irondequoit	Rochester	Goenart Island	Eramosa	A-I ONIT evap		A-Z UNIT SON			a B unit salt	marke	C unit		E unit carb	F unit shale	G unit shale	Boss letands	Bois Blonc	Amharathura	Dunded	Morceius		Kettle Point		Drift/Lake bottom	round level	310 ft	NTACTS: TOP	CRITCHFIELD.	CRITCHFIELD.	1138211
	REMARKS												1686	1690	CCOT	1645	1435		1371	1350	1225		4004	1001	952	2408	250	2000	141	66		w		-	TOP	D, G. F.	6	TOWNSHIP:
	MQC: 6								+	+			-									1											694	-	ELEV THICK			מאסטאר
		CORED INTERVAL	Z	LOGGED INTERVAL			7.00m 24	_	SIZE WEI	0			530	74 P					NIL	INTERVAL			1	1	1	אזני	INIERVAL		SPL. TRAY No :	ABANDONED:	COMPLETED:	SPUDDED:	CONFIDENTIAL:		CK. LATITUDE:	RIG TYPE:	TOTAL DEPTH:	LOT
OIL N GAS N PRESSURE PRODUCING INTVL	77.2	20	CORING RECORD	TYPE	LOGGING RECORD			78		200			325	SIMIL CEV. FE	70					NATURAL F	INITIAL OIL RECORD						NATURAL F		2585 IND	JUNE		JUNE 15.	~		42-53-10 N	CAB ELEV.	1737º RBILD.	
VI. NIC	FNAL RESULTS	DINTERVAL REC	ORD	LOGGED INTERVAL	ORD		CASING SHOE	ING SHOE	T HOW SET	a BECORD		1	SULPHUR	TOTAL TRE				_		FLOW   API GRAVITY	CORD				_	_	FLOW S.I. PRESSURE		INDEX No. 2194	1977			1977	SEQ:	1	694++ 31	4040	XI

		00	Toto	7	0		c	R	DO	o v	10	:17	٩N	_	I				_		BR					SI	LUI	٦1.	A N	_	_										_	V DE	v	ON	11.0	_		Γ	T	Som	GEO	19	-	WELL	COU
		COLUMBUS FACIES	Total Depth Samples	PRECAMBRIAN	AMBRIAN		20 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	D ACK		TRENTON							CATARACT						AMABEL																	I	RIVER	DETROIT		7	HAMILTON		PRT. LAMBTON	Drift/L	Lake/Ground	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	OPER ATOR:	LL NAME:	110
		ACIES PRESENT	imples 1930 ft			Shadow Lake	Gull River	Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Meatord Dundas	Cueenston	Whiripool	Monitoulin	Cabot Head	Grimsby	Thorold	Reynales	Irondequoit	Rochester	Gasport	Goat Island	Eramosa	Guelph	A-1 unit evap	Carno	A-2 unit Sall		onhy	B unit		C unit shale	unit	_	F unit shale		Bass Islands	Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus		Kettle Point		Drift/Lake bottom	around level	65 ft	ONTACTS:	PETROLEUM	POLINDER &	UEWATER	NO I
		NT IN LUCAS	REMARKS																					1927		1861	6170	+	۰	1609	1607	۰	1	1310	t	1166	T	t	910	801	706	458	392		146	62		4		T.	TOP	RESOURCE	HARMON	TRUE BRO	TOWNSHIP:
		JCAS	M Q C:													-																																	689		ELEV THICK.	,		DOKE 1-7-V	10
PERFORATED	PRODUCING IT	OIL GAS				NIL	TERVAL REC.	CONDITION STORED	CORING RE			_	T.=1934 GKNL	- 170	CO. GREAT GUNS	LOGGING			20.0# 1076	24.0# 4130	10.75m 40.0H 671 CA	WEIGHT SET AT	GAND				1880	000	ERVAL STAT LEV.	WATER				1882*	RVAL	INITIAL OIL RECORD							INTERVAL NATURAL	INITIAL GAS I	3900			OCTOBER	AL: NOVEMBER	81-57-29 V	LATITUDE: 4	CO-ORDINATES: 550°5:1485	AL DEPTH: 19	PERMIT No.	LOT: CONC:
OPEN HOLE	INTVL.	NIL	FINAL RESULTS				ANAL CORED INTERVAL REC ANAL	0	CORD					LOGGED INTERVAL	1	RECORD			MENTED	SING SHOE	CASING SHOE	HOW SET REC	TUBING RECORD				SAL T	TREUE	FLOW TYPE	0				_	FLOW API GRAVITY	1						-	FLOW S.I. PRESSURE	GAS RECORD	INDEX No. 2211	*	•	•	•			J. C. O. S	6899+ 44	4577	<

			_	YTY:		LAI		_				1	T	1WC	ISHI	P:	D	ΑW	N					_	LOT		19				со	NCE	SSIC	ON:	_						Т	-	AR		977	_	s 10
	D UNI COLUN POOR		1 .	2 2	L	0	RI	_		TA	N	+		0	_	_	7	_	_	_	_	SIL	UR	AII	N	_							_	H	_	_	VO	INC			,		omp	EOL	FOL	OPER	1
	UNIT EQUIV 1 LUMBUS FACIE OOR AGREEMENT	000111		CAMBRIAN	-	BLACK		2018	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					CATARACT					AMABEL																RIVER	DETROIT		HAMILTON		PKT. LAMBION	Drift/L	Lake/G	Samples start at	GEOLOGICAL CONTACTS:	DRILLING CO:	OPER ATOR:	
	NTES	00000	moles 1896	2	Shadow Lake	Gull River	Cabacank	Kirkfield	Cobourg	Collingwood	Meaford-Du	Queenston	Whiringol	Cabot Head	Grimsby	Thorold	Reynales	irondequoit	Bachester	Goat Island	Eramosa	Guelph	A-1 unit		A-2 unit	T	Sal	,	C unit			F unit	Islan	Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus	Zerine Toni		Drift/ Lake bottom	Lake/Ground level		NTACTS:	PETROLEUM RESOURCE	RAM PE	RAM NO. 49 DAWN
	RESEP		6		ake					à	indas	]	-	od.				=		2		dasa	COLD	anhy.	salt	carb	Sall	marker	shale	salt	carb	shale	ds		rg								43 1		EUM F	TROLE	194
		REMARKS																		1842		1801	1702	1676	1	1545	1542	1285	1247		1123	1019	854	680	564	332	227	44	F. 18					TOP	M RESOURCE		
	LUCAS AND SAMPLES		MOC																																							849		ELEV	m	0	3-19-X11
	PLES		1																																									THICK.		_	
					NIL	CORED INTERVAL	CONDITION					LOGGED INTER	LOGGING CO.	-			8.637 24	+			-		1876*	372*- 40	INTERVAL				246*- 36							1688 - 1697	INTERVAL	OT 1. 17001 140	SEL TRAY NO :	ABANDONED.	SPUDDED:	CONFIDENTIAL:	LONGITUDE:	LATITUDE:	RIG TYPE:	TOTAL DEPTH:	101
D	GAS PRE	-	_			RE					5	INTERVAL TYPE	COCAT			20.0# 1	_	40.04	<b>—</b>   6				_	400 2	STA	5		_	364 9		INT.				_	-	_	INIT	2057	_ C	ZOV	131	82-0	- 1		1896°	000
PERFORATED	OIL N GAS N PRESSURE						STOP	ORING			GRNL	TYPE	2 2 2 2 2					1 2	SET AT					230*		WATER			HS	NATURA	AL OIL					4.3	NATURA	AL GA	OF TOME	JANUARY	NOVEMBER	RUARY	82-02-47	42-40-30 N	S:1300	RBID	
	NIL NIL	FINAL RESULTS				ANAL CORED INTERVAL	STORED	RECORD			1500 *-1896 *	LOGGED INTERVAL	20000	7000		CEMENTE	CASING S	CASTNG	TOBING RECORD				MOHS		FLOW	RECORD			SHOW	NATURAL FLOW	INITIAL OIL RECORD					MCF/D	NATURAL FLOW	INITIAL GAS RECORD	N TO S	200	227	7,	¥	Z		9	7 6 2
OPEN HOLE		ESULTS				П					- 1	TERVAL					SHOE	CHOF	SET				SALT	SULPHUR	17					П	9					810	- 1	D STOT		118	1976	1977	SEQ:		4 + 6 8 19	4	40≥4
•		-				REC ANAL					THPL	TYPE				882	344	11.11	200					NUR	TYPE					API GRAVITY						810 PSIG	S.I. PRESSURE						-		t.		

_		CC	NUN	ITY.	:	LA	мв	TO	N				Т	two	VSH	IP:	D	ΑW	/N						LO	T:	2	4			cc	ONC	ESS	ION	:	1	ı			_	,	YEA	ıR:	1	977	7	
	00	1010	١,	, ,	L	0	R	DO	VI	CI/	٩N											SII	_U F	R1 /	N										1	DE	vo	NI/	AN			ogn	GEO	GEC	OPE	WELL	000
D.S.T. (S) ON	D UNIT EQUIV	Total Depth Sa	PRECAMBRIAN	CAMBRIAN	_	RIVER			TRENTON					CATARACT					AMABEL																L	DETROIT		HAMILTON		PRT. LAMBTON	Drift/L	Lake/G	GEOLOGICAL CONTACTS	GEOLOGY BY:	ZD	z :	COUNTY: LAMBTON
FILE	IV 1330 ACIES PRESENT	mples 1041			Shadow Lake	Gull River	Coboconk	Kirkfield	Verulam	Collingwood	Meaford Dundas	Queenston	Whirlpool	Cabot Head	Grimsby	Thorold	Reynales	Irondequoit	Rochester	Good Island	Eramosa		A-1 unit evap	Vano	A-2 unit salt	carb		lin B unit salt	C unit shale	unit		F unit shale	G unit shale	Bois Blands	Amherstburg	Lucas	Dundee	Marcelline	Kettle Point		Drift/Lake bottom	Lake/Ground level	NTACTS:	E		NOI	П
	Ä	REMARKS									S											1753	0000	Ŧ	Н	6. 1547	-	7	1352	Tim	Н	% 1135	+	268	793	572	499	273			15	7	TOP	RE	GAS COMPANY	DAWN 243 DAWN 24-11	TOWNSHIP:
TR	LUCAS	S MAC: /																																								626	ELEV   THICK.		un.	11-42 NW	DAWZ
33	OIL NIL GAS PRESSURE PRODUCING INTUL.  PERFORATED OPEN HOLE YES	FINAL RESULTS			2 7	CORED INTERVAL REC. ANAL CORED INTERVAL REC. ANAL		CORING RECORD			1°-1839° GRNL 1616°-1837° DENL	INTERVAL	LOGGING CO.: GREAT GUNS			8.63H 28.0H 1622+ CASING SHOE	42.0# 1159 CASING	1294 CASTNG SHOF	SIZE WEIGHT SET AT HOW SET REC	2						WATER RECORD			Z	AL	INITIAL OIL RECORD					391	INTERVAL NATURAL FLOW S.I. PRESSURE		NDONED:	13,	DECEMBER	13, 1978	CATITUDE: 42-4X-X4 N	CO-ORDINATES: 386 95:1986 1E	AL DEPTH: 1841° RBTD.	ĭ.	LOT: 24 CONC: II

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		D UNIT EQUIV		Total Denth Samples	CAMBRIAN		RIVER	7	200	,		AN			CATARACT		T			AMABEL			SI	LU	RI	AN		_								RIVER	_	101	HAMILTON	_	PRT. LAMBTON	Drift/I	Lake/C	GEOLOGICAL CON AC 13:	GEOLOGY BY:	DRILLING CO:	OPER ATOR:		COLINTY LAME
		1488 B		1930 **	2	Shadow Lake		Coboconk	Kirkfield	Cooding	Commywood	Meaford Dundas	Queenston	Whirlpool	Manifoulin	Cahot Hand	Thorold	Reynales	irondequoit	Rochester	Gasport	Good Island	Guelph		carb	A-2 unit salf		B unit salt		C unit shale	Dunit salt	unit	G unit shale	Bass islands	Bois Blanc	Amherstburg	Cundec	Marcellus		Kettle Point		Drift/Lake bottom	Lake/Ground level	71	PETROLEUM RESOURCE	NEWPORT WELLINGTON		PAFS N	
		UNIT EQUIV	REMARKS																		3 / 10	1928	968T	1886	1772	1768	1608			1512	1000	1280	1253	1098	1010	920	671	202	262	70		4		-	RESOURCE	LLINGTON	CO. LTI	DAWN	TOWNSHIP: DAWN
		17 1560		MOC: 7	+				+												1								-	1							-						149	ELEV. IHICK.		2	!	4-04-17	DAWN
					1	NIL	ERVAL	CONDITION			1	NIL	LOGGED INTERVAL	LOGGING CO.:				8.63m 24.0#	_	SIZE WEIGHT	CASING			1244*-1253*	6151- 6201	INTERVAL				- [	INTERVAL				Ц	*010 - 1000	INTERVAL		SPL. TRAY No.:		ED:		CONFIDENTIAL:	CALLIONE.	CO-ORDINATES:		TOTAL DEPTH: 19:	רסו:	- 07
DEBEOBATED	PRESSURE PRODUCING INTVL	OIL	F		_		REC. ANAL CO	STORED	CORING R				TYPE		LOGGING R		1242	590 •	91 4	-1					20.5	F	70				NATION RECOR							INITIAL GAS	2865		MARCH	FERPUARY	MARCH	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	M.005T:N.00h	CAB ELEV.	1930 PB.T.D.	CONC	TOTO 24 CONC. IV
D OBEN HOLE		NIL MCF/D	FINAL RESULTS				ANAL CORED INTERVAL REC. ANAL	0	ECORD				LOGGED INTERVAL TYPE		RECORD		EMENTED	CASING SHOE	OF	HOW SET REC	AND TUBING RECORD			SULPHUR	SIII DHIIR	FLOW TYPE				+	FLOW AD GRAVITY					PICT / 13	MCC /D	RECORD	INDEX No. 2187			2, 1977	4		M . O	v. 641++ 4.	D. 16569		711

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NO 12/ T 2 D		PINNACLE REEF	UNIT FOI	Total Depth Sc	PRECAMBRIAN	CAMBRIAN	RIVER			TRENTON						CATARACT					AMABEL			31	LUI		. 19										RIVER	_		HAMILTON	AN	PRT. LAMBTON	Drift/	Lake/	Samples start at	GEOLOGY BY:	DRILLING CO:	WELL NAME:	
- n		REEF - A1 AND	IV 1328	Samples 1844 f	NA		Shadow Lake	Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Meaford Dundas	Queenston	Whirlpool	Manifordia de de	Grimsby	Thorold	Reynales	irondequoit	Rochester	Good Island	Eramosa	Guelph	A-1 unit evap	carb	A-2 unit sall	carb	0	lin marke	C unit			Funit shale		Bois Blanc	Amherstburg	Lucas	Dundee	Morcellus	Kettle Point		Drift / Lake bottom		115 #	PETROLEUM RESOURCE	TREMBLAY (	NOINO	
		ID GUELPH	REMARKS	t. MQ		1																		1676	P.	1607		1542	1539	+	1345	Н	1226	+	t	862	790	561	485	200	100	-	E CI		יין הבכע		AY DRILLING	DAWN 244 DAWN 25-II	TOWNSHIP: U
				c: 7			CORE	CONDITION						LOGGED	Гоее			8.63п		16.	SIZE																	16		SPE. TRAY	ABAN	COMP	SPUDDED:		1702		RIG TYPE:		DAWN
TITAL	PRO	GAS	2			-	REC.						1*-1857* GRNL	ED INTERVAL TYPE	LOGGING CO.: GREAT		_	28.0#	42.0#		WEIGHT					_	INTERVAL STAT. LEV.	WA-			NIL	INTERVAL NA	INITIAL					57	NTERVAL N	20	ED:			P.	LONGITUDE: 82-12-55	TES:	C THI		LOT: 25 CONC
PERFORATED OFEN H	ALAT.	GAS NIL	FINAL RESULTS				ANAL CORED INTERVAL	STORED	CORING RECORD				NL 1580*-1855*	YPE LOGGED INTERVAL	AT GUNS			1587 CASING SHOE	CASING	CASING	SET AT HOW SET	TIES DE COR					LEV. FLOW	WATER RECORD				П	NITIAL OIL RECORD					- 1	NATURAL FLOW S.				JANUARY 12, 1977	11, 1978	€ 2	30 ° W	ELEV.	T No.: 4308	TI
OPEN HOLE IES	1 499		ULTS				REC. ANAL						55 DENL	RVAL TYPE		-		OF	OF C	+	T REC						TYPE					API GRAVITY						915d 06h	S.I. PRESSURE	6022	200				SEO: 1		627+150	30	

		_	coul	Т	Т	LA	-	-	-	C	AP		Τ	TC	WN	ISH	IP:	_	D	AW	N	_	SI	LU	RI.	_	: TC	2	5	_	_		OON	ICE	SSI	:NC	-	DE		ON.	IAI	<b>V</b>	Τ	YI	-		19:	_	WELL	000
	INNACLE R	D UNIT EQUIV	Total Depth Samples	PRECAMBRIAN		20 CE	D ACK		TRENTON						CATARACT					AMABEL																	RIVER	DETROIT		HAMILTON		The Company	DET AMBTON	Lake/G	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	OPER ATOR:	LL NAME:	COUNTY. ESTO
	A	1330	1843	2	Shadow Lake	Gull River	Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Mentard Dunda	Whiripool	Monitoulin	Cabot Head	Grimsby	Thorold	Reynoles	Irondequoit	Rochester	Goot island	Eramoso	Guelph	A-I Unit evap.		A-Z unit sall			B unit salt		E 7	D unit sall		Funit shale		Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus		Kettle Point	OFFICE CONTON	Lake/Ground level	0.8	NTACTS:	LEU	TREMBIAY	UNION DAW	
	AND GUELPH	RMARKS	11	1							ľ			+		-						+	1637	Н	+	1504	5 1511			3	e 1347	+	1000	+	t	871	782	580	477		259	124	. 3	n	#:	TOP	RESOURCE	GAS COMPANY	DAWN 245 DAWN 25-11	TOWN TO THE
		6	MQC: 7	-																					-																			020	200	ELEV THICK			N 25-11	200
					ZIL	CORED INTERVAL	CONDITION				10*-1526*	1 9 = 1 0 3	LOGGED INTERVAL TYPE			_	_	11.75¤ 42	-	1						INIERVAL					NIL	INTERVAL						1608*-1839*	INTERVAL		SPL TRAY No.:	ABANDONED:	COMBLETED.	CONFIDENTIAL.	LONGITUDE:		CO-ORDINATES:	H		
PERFORATED	PRESSURE PRODUCING INTVL					REC.	STORED	CORING RI			MSGM	15					28.0# 1586° C/	1160	1 70 0	WEIGHT SET AT	AND HISTORY					SIAI. LEV.	WATER RECORD					NATURAL FLOW	TIAL OF B				_	91	NATURAL FLOW	INITIAL GAS	3897	OCT I CMOEN	CANDAKT	SET TEMBER	82-13-07 W	42-42-34 N	594 "N:1943 "E	CAR FIELD	PERMIT No.	LOT. NO CONC.
O OPEN HOLEYES	NIL.	MIL RESULTS				ANAL CORED INTERVAL REC	D	ECORD				15871-1877 DENI	DOGED INTERVAL	RECORD			CASING SHOF	ASING SHOF	ACTNG CHOF	HOW SET	0000	_				FLOW 17PE			_	_		FLOW API GRAVITY	50000	_	_	_	_	525 PSIG	FLOW S.I. PRESSURE		INDEX No. 2210	1167 43	7/67 462	8/61 12	SEQ:			6061418	4309	4.4

			_	INT'	Y:	ı	. A I	-		-	-				Т	т	W	VSI	ПP	:	D	٩W	N			_		_	_		от	: ;	2.5				(	ON	CE	SSI	ON:		11					7	,	_	AR:	_	197	_	s [	0
D.S.T.(S) ON	PINNACLE REEF		Total Depth Samples	PRECAMBRIAN	CAMBRIAN	RIVER	O BLACK	-	DC	TRENTON	IC		IN				CATARACT						AMABEL	_	I	S	T	UF	21 7	a N		_						_		T		RIVER	DETROIT		NOTAMILION	_	_	PRT LAMBTON	Drift/L	Lake/G	omples start at	GEOLOGICAL CONTACTS:	DRILLING CO:	D	WELL NAME:	COUNTY: LAMBTON
FILE	1 = A1		1847	N		Shadow Lake	Gull River	Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Meaford Dundas	Queenston	Willippoi	Midnitodian	Capor Head	Grimsby	Inoroid	Transles	rongequoir	Rochester	Boshort	9001	Good lolond	Eramosa	dasa	A-1 unit coro	onny	A-C UNIT SON			Sa com	D	d C diiii Siiore		Dunit soll	1			Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus		Kettle Point		Drift/Lake bottom		100 ft.	ONTACTS:	DETROI FUM RESOURCE	CONSUMERS GAS CO.	UNION DAW	
	AND GUELPH	REMARKS	2										ľ	-	l					+				+		400	1607	OKCT	1000	1500	OUCT	t	+	1	T LOAT	+	+	7227	t	t	876	805	581	491		271	107		15		7	100	RESOLEC	GAS CO.	V 242 0/	TOWNSHIP:
	ž		MQC: 7																															1								Ī								626	-	ELEV.	ήÖ		WN 25-11	DAWN
TREATMENT: PERFORATED OPEN HOLE YES	Y ZZ					NI I	TERVAL RE	CONDITION STORED	CORING RECORD				1**1836* GRNL 1570*=1834* DENL	L THE LOGGED WIENAME	GKEAT GUNS	LOGGING RECORD	1		SUTCASTING	TI. 75m 42.0m 1145. CASING SHOE	100 CASING	WEIGHT SEL AL	CASING AND TOBING RECORD							INICAYAL SIAL LEV. TLOW	WATER RECORD				2 -	2000	INTERVAL NATURAL FLOW APIGRAVITY						410	INTERVAL NATURAL FLOW S.I. PRESSURE	INITIAL GAS RECORD	SPL. TRAY No.: 2050 INDEX No. 2197	CONT	DI JUNE 21	SPUDDED: NOVEMBER 27, 1976	AL: JUNE 21, 1978	LONGITUDE:	THICK LATITUDE: 42-42-31 N	CO-ORDINATES: 271*N:2202*W		PERMIT No.	LOT: 25 CONC: II

	C	COUNTY:	L	АМ	ВТ	0 N				1	rov	/NSI	HIP	;	D	ΑW	/N					l	OT.	: 2	2.5			С	ONC	ES	1018	4:	۷I					_	YE	AF	_	197	_	_	
2	D UNIT EQUIV	CAMBRIAN PRECAMBRIAN Total Depth Samples	RIVER		RDG	TRENTON	CI	AN			CATARACT		T			AMAGEL	200	T	S	1 44	JRI	IAI	N						_			214 12	DETROIT	V (	NO NAMIL ON	I A	_	DET I AMBTON	Lake/G	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:		WELL NAME:	COUNTY: LAMBTON
	505 B	AN Imples 1950 ft	Shadow Lake	Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Queenston	Whirlpool	Manitoulin	Cabot Head	Composition	Reynoles	Irondequoit	Rochester	Gasport	Goat Island	Eramosa	екар	A-1 unit corb	1	A-2 mait salt		B unit salt	4	C unit shale	unit		G unit shale	Bass Islands	Amherstburg	Lucas	Dundee	Marcellus		Kettle Point	AMBTON	Lake/Ground level	85 ft	NTACTS:	LEUM	Ë	RBES NO	
	REMARKS UNIT EQUIV 1	M O C :															1941	1906	1004	1867	1756	1751	1744	4 603		1555	1519	1801	1270	1250	1110	970	623	530		255	83		654		TOP ELEV	RESOURCE	CO. LTD	DAWN 1-	TOWNSHIP: DAWN
	1573			CONDITION				15000-1955	LOGGED INTERVAL	LOGGING CO GREAT			"HUU."	8.63¤	10.75m 40.0#		CASING				660*- 890*	80 83.	INTERVAL				NT.	1					NIC	INTERVAL			ABANDONED:	SPOODED:	CONFIDENTIAL	LONGITUDE:	THICK. LATITUDE: 4	CO-ORDINATES:	AL DEPTH:		TOT
PERFORATED OPEN HOLE	FINAL RESULTS OIL NIL GAS NIL PRESSURE		ARC. MINAL CORED IN ERVAL	STORED	CORING RECORD			GKNL 1/00*-1953*	1 YPE L	SND9	LOGGING RECORD		1260 CEMENTED	537 CASING SHOE	850	Н	NG AND TUBING RECORD				280° SULPHUR	FR	STAT I FV FI OW TYPE				ATT GRAVE	NATION FLOW				_		NATURAL FLOW S.I. PRESSURE	RECORD	NDEX	200	ABRI 20 1977	20,	1	42-42-26 N	525°N: 350°W	PBTD.	ERMIT No.: 4404	CONC.

D.S.T			PRE	0	_	01	-	TOI	/10	1 4	N	Г			1		D	A W			_	\$1	LU	RI	AP	OT N	_	25		_	_	-	NC	ESS	ION	Т	DE	· · ·	-		_	PRI	T	_	_	197	_	WELL	COUNTY
T (S) ON FILE		REMARKS	1010	AMBRIAN	_	BLACK COBOCONK	7.7.7.00	TRENTON Verulam	_	Collingwood	Meaford Dundas	Queenston	Whirlpool	Manitoulin	 Grimsby	Thorold	Revooles		AMABEL Books	Goat Island 1923	H		Н	carb	anhy 1763	carp	anny.	B unit	marker	C unit	unit sall		shale	Gunit shale 1166	Bois Blanc 970	Amherstburg 03	-	Dundee 490	HAMILTON	PO .	Kettle Point 80	PRT LAMBTON		Samples stort at 80 ft.	2	PETROLEUM RESO	METELOW OIL CO.	E: FORBES NO.8 DAY	LAMBION
TREATMENT		RKS.												I						Cal		0	0	0 0	(4)			00		3		Co	00 0	37 (				0		S	0	1	653	200	ELEV THICK.		מכי	3-25-41	
	G AS PRES			e e	NII NEC. I	INTERVAL DEC				_	NIL	LOGGED INTERVAL TY		Logo		7.00# 1187	8.000	451011	CASING		_		1910*-1915*	6101- 6201 2581	90 9	WATER VALLEY				SI	INTERVAL NA	INITIAL					1875*-1915*			·· [		COMPLETED: SEPTEM	CONFIDENTIAL: SEPTEMBER	1		TES:	7		LOT: 25 CC
PERFORATED OPEN HOLE	OIL NIL  GAS NIL  PRESSURE  PRODUCING INTVL.	FINAL RESULTS			MINAL CORED INTERVAL REC	1	CORING RECORD	- DECORP				TYPE LOGGED INTERVAL		LOGGING RECORD		CHMENT	CASING SHOE	CACT	NIBO I O						ERECH	KECOKO				2	NATURAL FLOW API GRAVITY	INITIAL OIL RECORD			_	_	WOHS	NATURAL FLOW S.I. PRESSURE	GAS RECORD	NDEX	1 - 10 - 10	WRED 27, 1977	0 7	2	z		PBITD.		CONC: VI

			TAUC	Y:	LA	МВ	ΤO	N		_		1	OV	/NS	HIF	:	D	A١	٧N						U	T:		26		_		COP	ICE	SSI	ON:	:	1.1		_			_		E AF	_	_	97		Ic
	B 0	1010	اوا	_	_	R	DO	_	CI	AN		L	_		_		,				_	SII	U	RI /	A N	_			_	_				_	L	~	_	V	_	_				Samp	3EOI	GEO	OPE	NE C	noc
	DEEPENING OF	Total Depth Samples	PRECAMBRIAN	AMBRIAN	70 - V m 70 - 70 - 70 - 70 - 70 - 70 - 70 - 70	AL ACK		TREVTON					CATARACT						AMABEL																	RIVER	DETROIT		HAMILION			PRT LAMBTON	Drift/L	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	RATOR:	WELL NAME:	COUNTY: LAMB FOR
	OF ORIGINAL	mpies + 24	AN	Onocon Lave	Gull River	Coboconk	Kirkfield	Verulam	Communication	Meaford Dundas	Queenston	Whirlpool	Manitoulin	Cabot Head	Grimshy	Thorold	Irondequoit	Rochester	Gasport	Goat Island	Eramosa	Guelph	A-1 unit		A-Z unit			ali B unit			D unit		Funit	Islan	Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus		Kettle Point	AMBTON!	Drift/Lake bottom			PETROLEUM RESOURCE	METEUW OIL CO.	HERITAGE DAWN 1-26-II	TOM
	NAL	3		2					ľ	ndas	L			ā.						۵			екор	carb	5011	carb.	anhy	salt	marker	shale	salt	carb	shale	S		9								75 ft		UM R	- 110	E DA	ī
	WELL	REMARKS																				1930	1921	1805	1700	1615	1610	1405		1326		1198	1000	928 826	846	755	545	447		217	73		4		TOP	ESOURC	MES B	2-I NM	OWNSHIT
		S S																																									829		ELEV	T.		11-9	N. 85.00
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				210	CORED INTE	CONDITION				1000-1936	LOGGED IN	0,		_			10.75						945*=1025*	n	INIERV					ZIL	INTERVAL					1807*-1	1805*-1807*	INTERVAL		SPL. TRAY No :	ABANDONED	COMPLETED:	SPUDDED:	LONGITUDE:	LATITUDE:	CO-ORDINATES	TOTAL DEPTH:		רסו
		-			RVAL REC.						Г		_		4 - C E	32.00	40.0#	WEIGHT	CASING					л л л								- I				8291	8071	AL							-24		H: 1936		1. 50
	OIL N GAS 201 PRESSURE A	-				STORED	CORING			GRAL	TYPE	SNN9	LOGGING		1071	17. t	77.	SET AT	ANDTO				210.	2	SIAI. LEV.						NATURAL	TAL OIL				242	150		F.	3899		AUGUST	AUGUST	12-35	42-42-51	360°N: 360°W		PERMIT No	CONC
2	5501	FINAL RESULTS			ANAL CORED INTERVAL	ED	RECORD			1800*-1936*	LOGGED INTERVAL		RECORD	CENENIEL.		CASING	CASING SH	МОН	TUBING RECORD						WO14	RECORD					L FLOW	NITIAL OIL RECORD				MCF/D	MCF/D	NATURAL FLOW	GAS RECORD	INDEX No.		17.	17.	3 2	Z			4	
OBEN HOI EAEC	MCF/D PSIG 1805*-1829*	ESULTS			RVAL REC					1936 DENL	TERVAL			-	9 0	30HS	SHOF	SET	CORD			-	SUI PHUR	CH SH	1796						API GRAVITY					855	BSS PSIG	S.I. P		2178		77	1978	SEQ:		4		4293	

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D.S.T. (S) ON	D UNIT EQUIV		Total Depth Samples	PRECAMBRIAN	CAMBRIAN	X <	BLACK	-	-	TRENTON					_	CATARACT						AMABEL			,		.01	110	- 14												BIVER	_	-	HAMILTON		PRT. LAMBTON	Drift/L	Lake/G	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	DRILLING CO:	WELL NAME:		COLINTY: LAMBT
FILE	FACIES PRESENT		mples 1959 ft	Z		Shadow Lake	Gull River	Cohocopk	Kirkfield	Verulam	Cobourg	Collingwood	Meaford Dundas	Queenston	Whirlpool	Manitoulin	Cabot Head	Grimsby	Thorold	Reynoles	Irondequoit	Rochester	Gasport	Goat Island	Eromosa	Guelph	A-1 unit corp	anhy	A-2 unit sall		on anny	a B unit salt		C unit	D unit sall		F unit shale	G unit shale	Bass Islands	Bois Blanc	Lucas	Dundee	Marcellus		Kettle Point		Drift/Lake bottom		84 #	NTACTS:	PETROLEUM RESOURCE	ROSE MURR	MEYLOW OIL CO. LTD	LICH TAGE	TON
	ä	REMARKS																							0	1941	1000	7181	1//9	1628	1620	1400	Š	1326		1182		1070	923	862	740	144/		221	85	Ī	4	Ī		TOP	RESOURC	AY	CO. LT	DWNUMIT:	TOWNSHIP:
4	LUCAS		MQC: 7																																													628		ELEV. THICK.	M	t	5 0	CAMIN.	DAWN
PERFORATED OPEN HOLE YES		FINAL RESULTS					CORED INTERVAL REC. ANAL CORED INTERVAL REC. ANAL		CORING RECORD	_				LOGGED INTERVAL TYPE LOGGED INTERVAL TYPE	- 1	LOGGING RECORD	1	5.50m 14.0m 1949. CEMENTED	20-0# 1070 CEMENTS	DE AST CASTNG	H 40.0# 85. CASING SHOF	SET A	CASING AND TUBING RECORD					560° 189° SULPHUR	RVAL STAT. LEV. FLOW	WATER RECORD				-	INTERVAL NATURAL FLOW API GRAVITY	TINI				_	**************************************	NAT	INITIAL GAS RECORD	SPL. TRAY No.: 3171 INDEX No. 2184		14,	DECEMBER 6.	AL: AUGUST 14, 1977	LONGITUDE: 82-12-35	LATITUDE: 4	TES: 630*S: 360*W	RIG TYPE: CAB ELEV. 628*+ 4*	1959*	CONC: 41	26 CONC.

COLUMNY LAMPION	,		COL	NT	Y:	l.	Α.	ΜВ	T C	N	_	_		_	ro	WN:	SHI	P:		D/	A W	N					(	.OT	:	2	6			CC	ONC	ES	SIC	N:		۷۱	1				_	1	YE.	_	_	19	_	_	10
TOWNSHIP:   LON:   26 CONC.   VI		UNIT E	Depth	PRECAMBR	CAMBRIAN	RIVER		RC	_	_		AN			3	3		_			AMABEL	-	I	SI	LU	RI	AI	7											_	-	V		_	_	PRT. LAMBTON	Drift/I	Lake/(	Complex stort of	SEOL OBICAL CO	SEOLOGY BY:	OPER ATOR:	VELL NAME:	
LIEV   HICK   LATITUDE:   LOGONDINATES:   STOPED   STOP		1303 - A1 AF	es 1685ff	AN		Shadow Lake	Gull River	Cohocok	Kirkfield	Verillen	Commywood	Meaford Dundas	Queenston	Whirlpool	Manitoulin	Cabot Head	Grimsby	Thorold	Reynales	Irondequoit	Rochester	Gasport	Eramosa Cont Island	Guelph		1 1014	-	i i		a chit		C unit			unit	unit	Bass Islands	Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus		_		ake bottom	- 1		DATACTS:		TOPMBIAY OF	MCCLURE-UN	TO
LOR			M			The same of the sa																		1991	0	1584	1577	0 !	1502	100	TOOO	1322		1199	1097	1076	934	628	730	500	426		193	64			657	+	דטם בובע	RESOURCE	L CO.	ION DAWN 2-2	WNSHIP:
PENT NO.: VI  2560°S: 650°W 2-03-37W 2-						2 1	INTERVAL	CONDITION				Tiend	1	CO.:						+	ZE	CASIN										NIL	INTERVAL			1675*	1641	1622*	1590*	1581				ABANDONED:	COMPLETED:			LONGITUDE	יייייייייייייייייייייייייייייייייייייי			9	LOT:
		SSURE 10					-	STORED	CORING BECORD				TYPE	EAT GUN	GING		1581	1177 CEMENTE	433 CASING	67 CASING	SET AT HOW	AND			_			FLOW	WATER BECORD		_	_	NATURAL FLOW API GRAVITY	RECORD		MCF/D	MCF/D	MCF/D	MCF/D	-	TURAL FLOW				15,	7,	R 15, 197	€ 2	0-40-59 M	0*5: 650*W	PB.T.D.	No.:	T A

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	JIV 1340		Samples 1903 ft	Z		Shadow Lake	Gull River	Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Medroro-Dungos	Queenston	A unitipoot	Monitoulin	Capor Head	Grimsby	Thorold	Reynales	Irondequoit	Rocnester	Gosport	Goat Island	Eramosa	Guelph	ечар	A-1 unit carb.	anhy	A-2 unit salt	carb.		B unit salt			uni†			G unit shale	Base Islands	Amherstourg	Lucas	Cunded	Imarcellus	Marcallina	Verile Tom	No.	Orinz Lake portom	ake/Ground level	10 th	3	E	NEWPORT .	MEYLOW OIL	2380	
		REMARKS																								1876	1862	1741	1730		1603			1394	7		1220			960	2 7 0	200	244	4111	240	0150	35			Į,	10P	M RESOURCE	AMES R.	CO. L1	NO F DAWN	OWNSHIP:
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PERFORATED OPEN HOLE YES	OIL NIL 6AS 220 MCF/D PRESSURE A20 PSI6 PRODUCING INTVL. 1754*-1772*	FINAL RESULTS				21	FERVAL REC.	CONDITION STORED	CORING RECORD				7380.=1802. GMNF 1/30.=1802. DENF	L TIPE LOGGED INTERVAL	GREAT GUNS	200		1/39*	1128 CASING		40.0# 76 CASING	WEIGHT SET AT HOW	CASING AND TUBING RECORD				MOHS	555 225 2	P P	INTERVAL STAT. LEV. FLOW TYPE	WATER RECORD			_	SHOW	INTERVAL NATURAL FLOW API GRAVITY	INITIAL OIL RECORD			_	MCT/U	200 200	NATURAL FLOW S.I. PR	INITIAL GAS RECORD		TOONED.	NOACWOEK 20%	00-00-7	IAC DECEMBER 30	W 12=00	N 89-24-24	CO-ORDINATES: 355°S: 355°E	YPE: CAB ELEV.	TOTAL DEPTH: 1905* BRID. 1800*	740.	26

	C	DUN.	TY:	L	۹Α.	B	ТО	N				_	۲٥١	WNS	SHII	P:		D	ΑW	N					L	от:		2 7				COI	NCE	SSI	ON	:	۷۱					_	YE	AR	: 1	97	7		
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1270	-	727		Shadow Lake	Gull River	2000	Kirkfield	Cobourg	Collingwood	Meaford Dundas	Queenston	Whirlpool	Manitoulin	Cabot Head	Grimsby	Thorold	Reynales	irondequoit	Bochester	Goat Island	Eramosa		A-1 unit evap		A-2 unit sall		on anny	B unit salt		uni+			F unit shale	_) =	Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus		Kettle Point	Unitt/ Lake bottom	Lake/Ground level .	67 ft.	NTACTS:	PETROLEUM RESOURCE	MCCLURE OIL		INITE SELL LANGE
	REMARKS																					1647	0	1564	120	1481		1356	1318	1287		1166	1060	268	827	737	468	392		160	2	\$			TOP	RESOURCE	CO	ON DAW	NTON DAW
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		_		NIL	CORED INTERVAL REC					1*-1757*	LOGGED INTERVAL	۵,			14.0#		8.630 200	10.75# 40.5#						F 379	RVAL					NIL	INTERVAL	LINI	1737	1946	1594 *	1560*-1561*	1524*	INTERVAL			ABANDONED:		IAL:	LONGITUDE:	4	CO-ORDINATES: 60	TOTAL DEPTH: 1		1000
	FINAL RESULTS					STORED	CORING RECORD		_	GPNL 1560*-1756*	TYPE LOGGED INTERVAL	GUNS	LOGGING RECORD		1560 CEMENTED	CEMENTE	403 CASING SHOE	CACTAG						AUU SIII BHIIB	V. FLOW	Z						INITIAL OIL RECORD		10250 MCF/D 870	-	MCF/D	MOHS		L GAS	3076 INDEX NO	* B2	FERPUARY 14, 1977			42-43-08 N	600°N° 600°W	PBTD.	RMIT No.: 4329	

T	20		ग	NTY.	F	LA	_	_	_	CI	AN	1	T	TC	W	ISH	IP:		A	WN		_	s	ILL	JR		LOT N	:	32	2	_	_	COI	NCE	SSI	T		V DE	   V	-	IIA	N			YEA			19	_	WE	CO
D S T (S) ON	COLUMBUS FAC		Total Depth So	CAMBRIAN		RIVER	200		TRENTON						CATARACT					AMABEL																	RIVER	DETROIT		1	NOT TON		PRT. LAMBTON	Drift/1	Lake/C	ples stort of	GEOLOGICAL CONTACTS:	BEOLOGY BY:		WELL NAME:	COUNTY: LAMBTON
	FACIES PRESENT		moles 1964 ft	2	Shadow Lake	Gull River	Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Market Division	The poor	Monitoulin	Cabot Head	Grimsby	Thorold	Reynales	Irondequoit	Rochester	Gasport	Goat Island	Gueiph	evap	A-1 unit carb		A-2 unit salt		B unit salt	marker	C unit	D unit sall		F unit shale		Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus		Kettle Point	Ì	Drift/Lake bottom	- 1	60 ft	1003	TAME INGS	RAWLINGS	M NO.59	
	NT IN LUCAS	REMARKS																			9	1928	7007	1878	1760	1756	1749	1674	1372	1346	1313		1165	1072	216	763	670	416	341		92	58		G			TOP	RECOLDS XILLING	DRILLING	DAWN 1-32-	WNSHIP:
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PERFORATED OPEN HOLE	OIL NIL GAS GAS NIL PRESSURE PRODUCING INTVL.	FINAL RESULTS	_			ERVAL REC. A	CONDITION STORED	CORING RECORD			800°-1860° TMPL 1000°-1960° DENE		LOGGED INTERVAL TYPE COCCED INTERVAL TYPE				1084 CEMENTED	40.0# 348 CASING	BH 48.0# 65° CASING SHOF	SET A	CASING AND TUBING RECORD			_	35, 500,	SHOW FF	INTERVAL STATLLEY FLOW TYPE			Tonas de la companya	2	TURA	INITIAL OIL RECORD					1760*-1763* 166 MCF/D		INITIAL GAS RECORD	: 3923 INDEX	NOVEMBER 23,	ED: NOVEMBER 16,	OCTOBER 11,	AL: FERRUARY	TONGITUDE: AD-O6-35 W	THICK LATITUDE: 42-44-01 N	C	* RBILD.	PERMIT No.:	LOT: 32 CONC: VIII

			UN	TY:	_	L	M	ВТ	10	ł			_	TO	WI	İSH	IP:		DΑ	WN						L	от:	: 3	2			-	ON	CES	SIO	N:	٧	П	1			_	_	YE,	_		19	_	_	
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	GUIV 1270 FACIES PRESENT REEF - A1 AND	Samples 1/10 ft	-		Shadow Lake	Gull River	Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Meaford Dundas	Olippopston	Manicolin	Cabot Head	Grimsby	Thorold	Reynales	irondequoit	Rochester	Gasport	Goat Island	Guelph			A-Z unit sam			B unit salt			D unit sall			Bass islands	Bois Blanc	Amherstburg	Lucas	Marcellus		Kettle Point		Drift/Lake bottom		63 ft	NTACTS:	RAWLINGS DRILLING	RAM PETROL	RAM NO.50 DAWN	
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				_	ZIC	CORED INTERVAL	CONDITION					- II	LOGGED INTER					8.63m 24.0#			CA				60*- 65	470 °					NIC	INTERVAL					16351-17701	1571 °		SPL. TRAY No.:	ABANDONED:	COMPLETED:	SPUDDED:	CONFIDENTIAL:		L ATITUDE:	RIG TYPE:	TOTAL DEPTH:		LOT:
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OPEN	NIVL B 31	FINAL RESULTS				ANAL CORED INTERVAL	ED	RECORD			1	16301-17691	LOGGED INTERVAL	Z PC CXC		CEMENTED	EMENTED	CASING SHOE	ASING SHOE	HOW SET	AND TUBING RECORD				71 (	FLOW	RECORD					7	-				30 MCF/D A	L LOM ST	ő	N			B	22, 1978	₹ 2	V4 * #	V. 661*+		4312	VIII
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|                            | UNIT EQUIV 1262  IL STAIN NOT MATCHING INITIAL OIL RECORD 494-5/4  INNACLE REEF - A1 AND GUELPH  OIL NIL GAS N/R PRESSURE 895 PSIG PRODUCING INTVL. 1632** | DUNIT EQUIV 1262  OIL STAIN NOT MATCHING INITIAL OIL RECORD #94-5/4  PINNACLE REEF - A1 AND GUELPH  FRODUCING INTYL. 1632** | Total Depth Somples 1745 ## MOC: 7 FINAL RESULTS  D UNIT EQUIV 1262 OIL STAIN NOT MATCHING INITIAL OIL RECORD #94 - 5/4 GASSURE 895 PSIG  PINNACLE REEF - A1 AND GUELPH  FRODUCING INTYL. 1632** | PRECAMBRIAN  TOTAL DEPTH Samples 1745 (1)  REMARKS  D UNIT EQUIV 1262  OIL STAIN NOT MATCHING INITIAL OIL RECORD 494-5/4  PINNACLE REEF - A1 AND GUELPH  PRODUCING INTYL. 1632**  PRODUCING INTYL. 1632** | MBRIAN Shodow Loke NIL  ECAMBRIAN MCC: 7  PERMARKS  REMARKS  NIT COUTY 1362  VIL  STAIN NOT MATCHING INITIAL OIL RECORD 494-5/4  NACLE REEF - A1 AND GUELPH  NICH MATCHING INITIAL OIL RECORD 494-5/4  PRODUCING INTYL. 1632** | CAMBRIAN  CAMBRIAN  CAMBRIAN  PRECAMBRIAN  INIT CORD INTERVAL REC. MANAL CORED INTERVAL REC. MANAL REC. MANAL REC. MANAL REC. MANAL REC. MANAL REC. MANAL CORED INTERVAL REC. | BLACK GORDONE CONDITION NIL  CAMBRIAN PRECAMBRIAN Total Depth Samples 1745 # MCC: 7  PRECAMBRIAN  TOTAL DEPTH SAMPLES 1745 # MCC: 7  PRECAMBRIAN  TOTAL DEPTH SAMPLES 1745 # MCC: 7  PRECAMBRIAN  TOTAL DEPTH SAMPLES 1745 # MCC: 7  PRECAMBRIAN  TOTAL DEPTH SAMPLES 1745 # MCC: 7  PRECAMBRIAN  TOTAL DEPTH SAMPLES 1745 # MCC: 7  PRECAMBRIAN  AND CORED INTERVAL REC. ANAL CORE | BLACK GABGONK CONDITION STORED  OR RIVER SHADOW Lake CORD INTERVAL REC. ANAL CORD INTERVAL REC.  CAMBRIAN NIL  PRECAMBRIAN NIL  TOTAL DEPTH SOMPLES 1745 11 MOC: 7  PRIVATE EQUIV 1262  OIL STAIN NOT MATCHING INITIAL OIL RECORD 494 - 5/4 GAS N/R  PINNACLE REEF - A1 AND GUELPH  OIL STAIN NOT MATCHING INITIAL OIL RECORD 494 - 5/4 PRESSURE 895 PSIG | O RENION CORING RECORD  RIVER Shadow Lake CONDITION CORING RECORD  RIVER Shadow Lake CONDITION CORED INTERVAL REC. AND CORED I | TRENTON Vervided CONDITION STORED  RECAMBRIAN SINGAGE NOC: 7  PRECAMBRIAN NOC: 7  PRECAMBRIAN NOT MATCHING INITIAL OIL RECORD 494-514  PINNACLE REEF - A1 AND GUELPH  CONDITION STORED  CORED INTERVAL REC. MAIAL CORED INTERVAL R | TOTAL DEPTH SOMPLES LATE OIL STAIN NOT MARCHING INITIAL OIL RECORD 4.537 - 17  D UNIT EQUIV 1262  D UNIT SOMPLES AND GUELPH  PINNACLE REEF - A1 AND GUELPH  CORDINGRECORD  CORDINTERVAL REC. ANAL COREDINTERVAL REC. ANAL CORE | A Collingwood Cooking Record Collingwood Cooking Record Collingwood Record Cooking Record Record Record Record Cooking Record Record Record Cooking Record Cooking Record Cooking Record Cooking Record Cooking Record Cooking Record River River Cooking Record Record River | Comment   Composition   Comp | Continue   Continue | Windipolin  Z Mariford Dundas  D TRENTON  READER  READER  GORD  RIVER  GORD  G | CATARACT CONDITION  PRECAMBRIAN  CAMBRIAN  CAMBRIAN  CAMBRIAN  COMMIT EQUIV 1262  PINNACLE REEF - A1 AND GUELPH  COGING CO: GREAT GUNS  LOGGING CO: GREAT GUNS  LOGGING CO: GREAT GUNS  LOGGING RECORD  LOGGING CO: GREAT GUNS  LOGGING RECORD  LOGGING CO: GREAT GUNS  LOGGING RECORD  LOGGING CO: GREAT GUNS  LOGGING RECORD  LOGGING CO: GREAT GUNS  LOGGING RECORD  LOGGING CO: GREAT GUNS  LOGGING CO: GREAT GUNS  CORING RECORD  STORED  NIL  CAMBRIAN  TOTAL DEPIN SURPLES 1745 11  RECORD 494 - 5/4  PRESSURE 895 PSIG | CATARACT Cobbs Head   7.00m   20.0H   1632*   CEMENTED | CATARACT   Colorada   TRENTON VARIAGEM COMBITION RECORD REC | 13.38P 40.0H 561 CASING SHOE | AMABEL   Rechester   Remarks   Record   Revoles   Revo | AMABEL   Gasbort   Gasbort   Gassort   Gasso | AMABEL Gosport Size WEIGHT SET AT HOW SET REMARKS  Gosport Size WEIGHT SET AT HOW SET REMARKS  CATARACT Mendequoit 10.75H 40.0H 3551 CASING SHOE Remarked Shoe Remarked Sh | Economics  Gospition  Gospition  Gospition  Gospition  Gospition  Gospition  Gospition  Gospition  Fraction Below:  Fraction Below:  Gospition  Fraction Below:  Gospition  Fraction Below:  Gospition  Gospition  Gospition  Gospition  Final Resource  Final | AMABEL Gost sind Gost pith Size WEIGHT SET AT HOW SET Record Story of Catharact Records and Tubing Record Story of Catharact Records and Tubing Record Story of Catharact Records and Tubing Short Story of Catharact Records Story of Catharacter Records Story of Cat | All full   POP   ADD   An in the content of the content o | Anabel   Gord   1628   SSS = 60*   175*   SULPH    SOUTH   STATE   SOUTH   S | Add unit   Carr   Add   Add unit   Carr   Add   Add unit   Carr   Add   Add unit   Carr   Add   Add unit   Carr   Add   Add unit   Carr   Add   Add unit   Carr   Add   Add unit   Carr   Add   Add unit   Carr   Add   Add unit   Carr   Add unit   Add | CATARACT   Cabbulland   Cabbu | A2 mil   Sol   S | Bunit  | CATARACT   Monitorial   Monit | Curit   Arive   1382 | Curit   SANA   1282 | Funit show   1056 | Funit   Sande   1033 | Boust intornate   906 | See Billones   906   See Bil | Designation   1763   1682   181622   181622   181622   181622   181622   181622   181622   181622   181622   181622   181622 | DETROIT   Lucion   DETROIT   Lucion   DETROIT   Lucion   DETROIT   Lucion   DETROIT   DEDIT   SIGNET   DETAIL   LUCION   DETAIL   DETAIL   LUCION   DETAIL   LUCION   DETAIL   LUCION   DETAIL   | Deferroit   Unit   Series   AMMILTON   Interval   AMAILTON   Marriage   238   MATURAL FLOW   APIGES   API | AMAILTON   Marcellue   59   ADAMODICED:   OWNE | PRILUMENON   SOURCE   COMPLETED: AURIL   S. 1977   SOURCE   SOUR | CAMBRIAN   CAMBRIAN | Semples steried   Constrictions   Constricti | CONTROL   CONT | DECKNOON BY PETRIC   PUM RESOURCE   DOCUMENTATES: 72   1650   WELL   THOSE   DOCUMENTATES: 72   1650   WELL   SAME   SEC. 1   DOCUMENTATION   CONTINUES: 72   1650   WELL   SAME   SEC. 1   SAME   Delication Co.   RAM LINES DITLLING   GROUGOV NY   PETROLEMIN RESOLUTE   CO-ORNINATES   ATT SILESON | WELL   MAME: RAM PETROLUS; ITD   PERMIT No.: 9233   OPERA ATOR: RAWLINGS DRILLING   FOR ATOR: RAWLINGS DRILLING   FOR ATOR: RAWLINGS DRILLING   FOR ATOR: RAWLINGS DRILLING   FOR ATOR: RAWLINGS DRILLING   FOR ATOR: REEF   FOR ATOR: RAWLINGS DRILLING   FOR ATOR: REEF   FOR ATOR |

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	D UNIT EQUIV 1274 OIL STAIN NOT MAT PINNACLE REEF - A	Total Depth S	PRECAMBR	CAMBRIAN		BLACK	3	RENTON		IA	N			CATARACT		I			1	AMABEL			SIL	_U F	RIA	IN											-	DETROIT	T	HAMILTON	T	PRT. LAMBTON	Drift/	Lake/(	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:		WELL NAME: RA
	1 AND	Samples 4737 TL	754		Shadow Lake	Gull River	7 7 7 8 0	veruiam	Cobourg	Collingwood	Meaford-Dundas	Queenston	Whirlpool	Manifoulin	Grimsby	Thorold	Reynoles	Irondequoit	Rochester	Gasport	Goat Island	Eramosa	Guelph	A-1 unit evap	anhy	A-2 unit salt	carb.	on anny	B unit salt			Dunit sall	F unit snave	-	Bass Islands	Bois Blanc	Amherstburg	Lucas		Marcellus	Keffle Point		Drift/Lake bottom	Lake/Ground level	62 ft	ONTACTS:	PETROLEUM RESOURCE		RAM
	INITIAL	REMARKS																					1679	5201	1623	0	1540	0	1347	1329	1287	COTT	1000	1033	872	777	674	412	175	26	0 0	2	ŧ			TOP EL	RESOURCE	EUMS LTD	NO.52 DAWN 4-32-VIII
	OIL RECORD	3000			NIL	CORED INTERVAL	CONTRACT				1:-1738:	LOGGED INTERVAL TYPE	LOGGING CO.: GD		7.00# 20.0#	_	10.75# 40.0#	13.38m 48.0#	-	CASING				400	550- 620	VAL						INTERVAL						16404		SPL. TRAY No.:				IAL:	LONGITUDE:	ELEV THICK LATITUDE: 4	CO-ORDINATES:	TOTAL DEPTH: 17	I
0	OIL NIL GAS N/R PRESSURE 896 PSIG PRODUCING INTVL. 1629-1738*	FINAL RESULTS				REC. ANAL CORED INTERVAL REC.	STORED ON				GRNL 1600 -1736 DENL	TYPE LOGGED INTERVAL	EAT CHING		16111	1064	348 CASING	651	SET AT HOW	AND TUBING RE				SULPHUR		L	WATER RECORD					NATURAL FLOW API GRAVITY						1450 MOS /D	NECONO.			MAY 18, 1977	MAY 14, 1977	1978	2-06-46 W SEQ:	N 84-44-24	899'N:1614'W	PBTD.	PERMIT No.: 4532

	COUNT	T		OF		_	-	IA	N	T	-		NSI		_	D	AW	/ N	_		SIL	.U F	21.4	_	T:		3 2			_			.331	ON:	_	V DE	VC	-	AN	_	Т	YE	_	_	19:	-	WELL	CO
	PRECAMBRIAN Total Depth Samp	CAMBRIAN	RIVER	BLACK		TRENTON						CATARACT						AMARE																	RIVER	DETROIT		HAMILTON		PRI LAMBION	Drift/L	Loke/G	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:		LL NAME:	COUNTY: LAMBTON
	Samples 1976 ft		Shadow Lake	Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Meaford Dundas	Queenston	Whirlpool	Capor mead	Grimsby	Thoroid	Reynales	Irondequoit	Rochester	Gasport	Goat Island	Eramosa		A-1 unit care	anhy	A-2 unit salt		onhy.	B unit salt		_	D unit solt		F unit shale		Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus	Zaria Tokii	V and a	ake bottom	Lake/Ground level	60 ↔	NTACTS:	PETROLEUM	RAM PETROL	3	
	REMARKS																		1957		1911	1897	1758	1751	1626	1613	1374	5	+	1282	+		t	822	652	408	336		90	70	4		Ī	TOP	MRESOURCE	PETROLEUMS LTD	DAWN 6-	TOWNSHIP: DAWN
	MQC: 7																				1																		+			659	-	ELEV. THICK.	T)			DAWN
OIL NIL GAS NIL PRESSURE PRODUCING INTVL.	FINAL RESULTS		NTI NTERVAL REC. ANAL CORED INTERVAL REC. ANAL	STORED	CORING RECORD				-1976' GRNL	m	LOGGING CO. GREAT CHAIC			24.0# 1066 CEMENTED	10.75m 40.0H 340 CASING SHOE 340	48.0# 63 CASING SHOE	SET AT H	CASING AND TUBING RECORD			-000	TOTO THOU SULPHUR		STAT. I.EV. FLOW	WATER RECORD					INTERVAL NATURAL FLOW API GRAVITY	INITIAL OF BELOND			_				INITIAL GAS RECORD	NOONED: DECEMBER CLA 1977	DECEMBER 16	NOVEMBER 14.	HAL: JANUARY 16.	LONGITUDE: 82-06-55 W	LATITUDE:	CO-ORDINATES: 522°N*2100°E	AL DEPTH: 1976 PBTD.	PERMIT No.: 4594	LOT: 32 CONC: VIII

	COUNTY:		BTON		T	OWNSI	IIP:	DA	W N			_		_	_OT	:	32		_	COI	VCE:	SSIO	N:		Х		_	_	F	7		19		<b>≤</b> [c
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UMBUS F	CAMBRIAN PRECAMBRIAN tol Depth Sampl	BLACK	TRENTON			CATARACT			AMABEL															RIVER		TANKI CI ON		TAI. LAMBION	Drift/L	Lake/G	Samples start at	GEOLOGY BY: PETRO	OPER ATOR:	WELL NAME: RA
D UNIT EQUIV 1284 COLUMBUS FACIES PRESENT OIL STAIN NOT MATCHING:	CAMBRIAN PRECAMBRIAN Total Depth Samples 1992	Gull River Shadow Lake	Verulam Kirkfield	Meaford Dundas	Whirlpool	Cabot Head Manitoulin	Thoroid	irondequoit	Rochester	Goat Island	Eramosa	Guelph	A-1 unit carb	1	A-2 mit sall		a B unit salt	Curit	יומט		F unit shale	Bass Islands	Bois Blanc	Amherstburg	Dundee	Marcellus		Kettle Point	Drift/Lake bottom	Lake/Ground level	54	PETROLEUM RESOURCE	RAM PETROLEUMS LT	
REMARKS SENT IN LUC ING INITIAL	2			0.9						1956		1932	Н		-	+	// 1358	1	t	70 1171	+	Н	786	673	343		94	50	US		₽	M RESOUR	DRILLIN	NO.58 DAWN 7-
IN LUCAS	M Q C:																													662		E1 E <	ING LTD	7-32-IX
RECORD		COF			L00		10	1.3	6																-		SPL	ABA	SPL	CON		CO-C	TOT/	
		CORED INTERVAL NIL		1*-1990*	LOGGING CO.: GREAT		10.75m 40 8.63m 24		SIZE WE	2		961-1266	355*- 365*	534	NTERVAL			NIL	NIEKVAL					2	INTERVAL		SPL TRAY No.	ABANDONED:	SPUDDED:	CONFIDENTIAL:		TES	TOTAL DEPTH:	101
OIL GAS PRESSURE PRODUCING II		REC.	CORIN	GRNL	GREAT GUNS	LOGGING	40.0H 340* 24.0H 1067*	48.0# 54	WEIGHT SET AT	CASING AND			03		STAT LEV			_	NATO	INITIAL					NAT	INITIAL	3912	00108	SEPTEMBER	FEBRUA	82-06-16	350 °S: 350 °E	1992*	PERMIT No.
NAL NI		ANAL CORED INTERVAL	CORING RECORD		NS NS NS	NG RECORD	CASING	CASING	T HOW SET	TUBING RF		MOHS	)		Z Z Z Z C C Z C				NATURAL FLOW	INITIAL OIL RECORD					URAL FLOW	INITIAL GAS RECORD	NDEX	0	16	22,	OD (	350 °E		
L L		RVAL REC			TERVAL		SHOE 340	_	SET REU.	080		SALT	SULPHUR	FRESH	TYPE				API GRAVITY	1 [					S.I. PRESSURE		2217	1977	1977		SEQ:		662*+ 5*	4565

	0	70		T		OR	DC	V I	CI	AN				_	_	_		WN			s	ILU	RI	A	N	_		3		_	_	_	_	Γ	-	V I		NI	AN				Sor		19 GE D		¥ E	CO
	UNIT EQUIV	Total Depth Sc		CAMBRIAN	m	BLACK		TRENTON					CATARACT					AMABEL					_												RIVER	DETROIT		HAMILTON		PRT. LAMBTON	Drift/L	Lake/C	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:		WELL NAME:	COUNTY: LAMBION
	IV 1250	Samples 18/1 ft	AN		Shadow Loke	Coboconk	Kirkfield	Verulam	Cobourg	Medford Dundas	Queenston	Whirlpool	Manitoulin	Cabot Head	Inoroid	Reynoles	Irondequoit	Rochester	Gasport	Goat Island	Guelph	ечар		1	A-2 unit salt		B unit		C unit		E unit carb	Funit shale		Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus	Kettle Point	$\overline{}$	Drift / Lake bottom		60 #	ONTACTS:	PETROLEU	RAM PETR	M NO.55	
	X P			1			Ī																		7007	0	1352	1331		1263	+	+	864	758	660	415	335	87	5		4			TOP	W RESOURCE	EUMS LTD	- 1	=
		MQC: 7		+																1												1					1					660	ŀ	ELEV THICK			4-33-VIII	DAWN
PERFORATED OPEN HOLE	OIL N/R			7	CORED INTERVAL REC. ANAL CORED INTERVAL REC	1	CORING RECORD		1470°=1831° CBND 1470°=1831°	GEZZ	L TYPE LOGGED IN	ויש	LOGGING RECORD	27/11 HO.OZ		40.0# 332 CASING	651		CASING AND TUBING RECORD			1871'	130 0	60° FR	INTERVAL STAT LEV FLOW TYPE				50 •	INTERVAL NATURAL FLOW API GRAVITY		_	•	9 373	•	32 MCF/D	INTERVAL NATURAL FLOW S.I. PRESSURE	SPL. TRAY No.: 1873 INDEX No. 2203	NDONED:			IAL: FEBRUARY 22, 1978	LONGITUDE: 82-06-44	LATITUDE: 4	CO-ORDINATES: 475°N:1625*W	тн: 1871* ввтр. 1848*	PERMIT No.:	LOT: 33 CONC: VIII

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D.S.T (S) ON	D UNIT EQUÍV 1292 COLUMBUS FACIES P PINNACLE REEF - A	Total Depth Sa	PRECAMBRIAN	CAMBRIAN	RIVER	_	RDG	TRENTON	IC	14	1	-		CATABACT				_	AMABEL			SIL	UF	RIA	A N			-		_						RIVER	_	-	HAMILTON	I	PRT. LAMBTON	Drift/L	Lake / Ground	September at the College MC 19:	GEOLOGY BY:	DRILLING CO:	WELL NAME:	COUNTY: LAMBION
	IV 1292 ACIES PRESENT EEF - A1 AND	Total Depth Samples 1921 11.	AN		Shadow Lake	Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Menford Dunda	Whiripool	Monitoulin	Cabot Head	Grimsby	Thorold	Revigies	Tronde a ser	Gasport	Goat Island	Eramosa	Guelph	A-1 unit evap	anny	A-2 unit salf			E Bunit sall	Cunit			F unit shale		Bass Islands	Bois Blanc	Amherstburg	Dundes	Morcellus		Kettle Point		Drift/Lake bottom	level	68 ft	MUBI	RAWLINGS DRILLING	RAM NO.51 DAWN 4-3	
	O GUELPH	REMARKS																		1917		1803	1121	02/1	1715	1587		1360	Т	1204	1178	1073	1051	904	805	675	1000	277.2	96	62		4	6	107	1100	RILLING	DAWN 4-33-IX	P
4	U	3000																+																									664	ברבי ומוכא.	1000	20 7		DAWN
				,	NITI					1700*-1926*	19-10261	00:		_		7.00m 20.0m		+	-				1706	64*- 68*	B				NIC	AL	1				17961	1746*	170E	-	SPL. TRAY No.:	ABANDONED:	ED:		2	ONGITUDE: A	TES	RIG TYPE: C	2	LOT:
PERFORATED	OIL N GAS 1 PRESSURE A PRODUCING INTVL	FIN	_		HEC. ANAL CORED IN ERVAL		CORING RECORD			CALP	CBNI	AT GUNS	LOGGING		16981	10821	4 C 3 K	OF A	GAND				1500	2	STAT. LEV. FLOW	D				NATURAL FL	INITIAL OIL RECORD					538 MC		INITIAL GAS RECORD	2260 INDI			FEBRUARY 15.	FERRUARY 22	N 102100 N	Z	ELEV.		SO CONC: IX
OPEN HOLEYES	NIL 171 MCF/D A80 PSIG VL.	FINAL RESULTS			DINIERVAL REC.	1000	ORD	_			17001-1934 DENI	ED INTERVAL	RECORD		_	CEMENTED 9101	ING SHOE	TON SET MEC.	COND		_	0	SULPH	FRESH						API GRAVITY	1				MCF/D	MCF/D GOO PSIG	S. I. P.	1	INDEX No. 2193			1977	1978	SFO:		1100.	4325	

FREE	Toto	B 0		O F	RDC	VI	CIA	N						_			_	S	ILU	RI	AN									L	_	_	0	NIA	_			Som	GEO	GEO	OPER	COU
UNIT EQUIV	Total Depth Sc	PRECAMBRIAN		BLACK		TRENTON					CATARACT				1	^ ^ ^ O															RIVER	DETROIT		HAMILTON		PRT. LAMBTON	Drift/L	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	OPER ATOR:	
IN LUCAS	Samples 2156 ft.		Shadow Lake	Gull River	Kirkfield	Verulam	Collingwood	Meaford-Dundas	Queenston	Monitoulin	Cabot Head	Grimsby	Thorold	Irondequoit	Rochester	Gasport	Goat Island	Gueiph	evap.		A-Z UNIT San		s anny	alir B unit salt	a C unit snare		E unit carb		G unit shale	Bois Blanc	Amherstburg	Lucas	Dinder Cellus		Kettle Point		Drift / Lake bottom	ake/Ground level	2	PETROLEUM F	POUNDER & F	20
2.	REMARKS																2146	4012	2091	1978	1974	1761		1515	1490	4 1 2 7	1310	1205	1182	1961	785	534	D 2 1	168	77		4		TOP	RESOURCE	HARMON	TOWNSHIP:
52	MQC:									_				-											-	-			1			1						638	ELEV.	778		TOWNSHIP: CNN LOX LCCN
	FINAL RESULTS			CONDITION STORED STORED REC. ANAL CORED INTERVAL REC. ANAL	COF		21641	*-2164* GRNL 1950*-2164* DE	LOGGED INTERVAL TYPE LOGGED INTERVAL TYPE	LOGGIN		11.0# 2093 CEMENTED	7.00m 20.0m 1239: CEMENTED 1027:	40.5# 81 CASING SHOE	WEIGHT SET AT	CASING AND TUBING RECORD				225*	78° 25° FLOW FRESH	WATER RECORD			2	INTERVAL NATURAL FLOW API GRAVITY	INITIAL OIL RECORD	70 MCF/D	2140° 888 MCE/D 720 PSTG	666	593	2113* 432 MCF/D	NATION STOWN			ED: JUNE 6	MAY 5	CONFIDENTIAL: AZ-13-55 W SEQ: 1	121-431-00 N	CO-ORDINATES: 350°S: 350°W	AL DEPTH: 2164* BBTD. 2096*	LOT: 1 CO

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   |                       |   |  | PRT LAMBTON                 | Drift / L                      | amples start at                              | EOLOGICAL CC   | EOLOGY BY:   | OPER ATOR:   | VELL NAME:  
  | COUNTY: LAMBTON  |
| X<br>M<br>M<br>N<br>N  |                                   | 2220    |   | Shadow Lake                                     | Coboconk   | Kirkfield  | Verulam  | Cobourg  | Collingwood   | Meaford Dundas   | Queenston  | Whirlpool   
   | Manitoulin  | Cabot Head   | Grimsby  | Thoroid  | irondequoit  
   | Rochester  | Gasport   | Goat Island  | Eromoso  | н  
   |  | anhy. | A-2 unit sall  | carb.  |                        | B unit  
  | C unit   |  |   | F unit shale | G unit shale      | Bass Islands | Amherstburg  | Lucas             | Dundee  
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  | -  | t  | 1360  |              |                   | 992          | 04.0   | 200               | 402   
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|                        |                                   |         |   | NIL WIENA                                       | CONDITION  |  |  |  | L   | 11-222   |  |   
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   |                       |   | • •  |                             | SPUDDED:                       | LONGITUDE:                                   | LATITUDE:  | CO-ORDINATES   | AL DEPTH:  |   
  |  |
| GAS PRESSURE PRODUCING | F                                 |         |   | 200   | 000  |  |  |  |   | 0º GRNL  | TYPE   | GUNS  
   |   |  | Trivi  | 4504   | 58   
   | SET AT   | AND   |  |  | 10,61  
   | 372  | 7.    |  |  |                        |   
  |  | NATURAL  | INITIAL OIL F   |              |                   |              |  |                   | NATURAL   
   | INITIAL GAS           | 3904  | SEPTEMBER  | SEPTEMBER                   | SET TEMBER                     | 82-02-20                                     | 42-54-31   | 1500 N:  | CAR FIELD  | PERMIT No.  
  | LOT: 27 CONC:  |
| NIL                    | INAL RESULTS                      |         |   | 1   | TOWN T   | CORD   |  |  |   |  | GGED INTERVAL  |   
   | ECORD   |  | THEN I CO  | SING SHOE  | ASING SHOE   
   | HOW SET  | ING RECORD  |  | _  | SAL  
   | SUL  |       |  | CORD   | _                      | _   
  |  | H  | 7   |              |                   |              | _  |                   | ╁   
   | RECORD                | DEX No.   | CH (   | 51 0                        | ט ט                            |  |  | E.   |  | 4524  
  | XIII   |
|                        | SALT PRESENT GAS PRESSUR PRODUCIN | REMARKS | PRECAMBRIAN  Total Depth Samples 222U rt MQC: 7  HFH SALT PRESENT  OL  PRESSUR  PRESSUR | Samples 2220 (t) MQC: 7 OIL PRESENT GAS PRESSUR | PRESSURE  RIVER  SADDOW Loke  CAMBRIAN  PRECAMBRIAN  Total Depth Samples 2220 rl  REMARKS  REMARKS  OIL  OIL  NIL  PRESSURE  PRESSURE  PREDUCING INTV. | NIL  REACK CORDINION O RIVER Shadow Lake CAMBRIAN  PRECAMBRIAN  PRESCAMBRIAN  REMARKS  REMARK | BLACK COBOCONK O RIVER CAMBRIAN CAMBRIAN Total Depth Samples 2220 11 HFH SALT PRESENT  REMARKS  CORED INTERVAL RC. JAVAL  NIL  COMBTIAN  NIL  OL  ORED INTERVAL RC. JAVAL  NIL  OL  ORED INTERVAL RC. JAVAL  OL  ORED INTERVAL RC. JAVAL  OL  ORED INTERVAL RC. JAVAL  OL  ORESURE | A TRENTON VANION CORING RECORD CORING RECORD CORING RECORD CORING RECORD CORING RECORD CORED INTERVAL REC. ANAL CORED INT | O TRENTON VERMIND CORNOR RECORD  O RECORD CONDITION  O RIVER CONDITION  O RIVER CAMBRIAN  PRECAMBRIAN  TOTAL DEPTH SALT PRESENT  PRESSURE  FINAL RESULT  FINAL RESULT  PRESSURE   Cabaura  New Total Cabaura  RIVER  BLACK RIVER  SHAGE  CABGEOR  CAMBRIAN  CAMBRIAN  FRECAMBRIAN  Total Depth Samples 2220 ri  THE SALT PRESENT  REMARKS  CORD INTERVAL  FINAL RESULT  FINAL RESULT  OIL  NTL  PRESSURE  PRESSURE  NTL  PREDUCING INTEL  PREDUCING INTEL  PREDUCING INTEL  PREDUCING INTEL  INTL  PREDUCING INTEL  PREDUCING INTEL  PREDUCING INTEL  PREDUCING INTEL  INTL   A COBINGMOOD CORING RECORD NITERVAL REC. AMAL CORED INTERVAL RESULT RESULT NIL PRESSURE NIL PRESSURE NIL | DOBED INTERVAL TYPE LOGGED TYPE LOGGED INTERVAL TYPE LOGGED TYPE LOGGED TYPE LOGGED TYPE LOGGED TYPE LOGGED TYPE LOGGED TYPE LOGGED TYPE LOGGED TYPE LOGGED | Tento Depth Samples 2220 1   Mack Store   Mack Store   Mack Continues   CATARACT Monitoulin LOGGING CO: GRAT GLNS  QUEENSTON LOGGED INTERVAL TYPE LOGGED INTERVAL  TRENTON COBBOUNGS 11-2220° GRAL CORED INTERVAL  REMARKS CORD INTERVAL CORING RECORD  CORNING RECORD  OIL  FINAL RESULT  FINAL RESULT  FINAL RESULT  PRESSURE  OIL  FINAL RESULT  PRESSURE  PRESSURE  PREDUCTION INTERVAL  FINAL RESULT  FINAL RESULT  FINAL RESULT  PRESSURE  NIL  PRESSURE  PREDUCTION INTERVAL  FINAL RESULT  PRESSURE  NIL  PRESSURE  PREDUCTION INTERVAL  FINAL RESULT  PRESSURE  NIL  PRESSURE  PREDUCTION INTERVAL  FINAL RESULT  NIL  PRESSURE  PREDUCTION INTERVAL  FINAL RESULT  PRESSURE  NIL  PRESSURE  PREDUCTION INTERVAL  FINAL RESULT  NIL  PRESSURE  PREDUCTION INTERVAL  FINAL RESULT  NIL  PRESSURE  PREDUCTION INTERVAL  FINAL RESULT  NIL  PRESSURE  PREDUCTION INTERVAL  PRESSURE  NIL  PRESSURE  PREDUCTION INTERVAL  PRESSURE   CATARACT CAT | CATARACT Cobo Head  Colms by  CATARACT Cobo Head  Manitudin  Whirlpool  Whirlpool  Whirlpool  Whirlpool  Collingwood  Orderston  A  Collingwood  Orderston  A  Cobourg  BLACK  RIVER  CAMBRIAN  CAMBRIAN  FRECAMBRIAN   CATARACT Gobol Head  Cabol Head  Cabol Head  Cabol Head  Cabol Manipool  Cabol Manipool  Cabol Manipool  Caboling Manipool  Cab | CATARACT   Cabol Head   Cabol | CATARACT Cobo I Head Contingwood Collingwood Collingwood Coboconk (I Kirkinia) Coboconk | AMABEL Rechester SIZE WEIGHT SET AT HOW SET Inondequoit 10.75H 40.0H 58° CASING AND YUBING RECORD 46.0H 450° CASING SHOE FRANCISS WEIGHT SET AT HOW SET Inondequoit 10.75H 40.0H 450° CASING SHOE FRANCISS WEIGHT SET AT HOW SET INONDEQUE PRODUCING MEMORY AND YUBING RECORD 20.0H 175° CEMENTED 20.0H 175° CEMEN | AMABEL Gosport I sind 2206 Casing AND TUBING RECORD Rochester 10,75H (40,0H 55H) CEMENTED Records (5HOE Thoroid Toping Records (5HOE | AMABEL Reynoles 2206 2206 2206 AND TUBING RECORD RECORD REYNOLES AMABEL Reynoles 10.75H 40.0H 587 AT ASTAC SHOE Reynoles 10.75H 40.0H 450* CASING SHOE Reynoles 20.0H 175° CEMENTED 24.0H 450* CASING SHOE Reynoles 20.0H 175° CEMENTED 24.0H 450* CASING SHOE Reynoles 20.0H 175° CEMENTED 24.0H 450* CASING SHOE REYNOLES 24 | AMABEL Response 2206  Gospons Samples 2206  AMABEL Response Frequency of the continuing and the continuing a | A     | Calingwood   Cambrid   Cabbornia   Cabbo | Act unit   Series   1963   INTERVAL   STATLEK, FLOW   STATLEK   STATLEK, FLOW   STATLEK   STATLEK, FLOW   STATLEK   STATLEK, FLOW   STATLEK   ST | A2 unit   serif   1963 | A A A BEL   Galport   1625   2182*   1970*   1827   1928   2182*   1970*   1 | Substitute   Sub | WATER RECORD   WATER WATER RECORD   WATER WATER WEIGHT SET AT HOW SIZE   WEIGHT | Curit   Salf   1435   NIL   Eurit        | Funt shade   1166 | Carrell      | Camples   1366   1166 | Bots Blands   992 | NIL   NIL | DETROIT   Lucis   500 | Description   Compare   Tatel Depth Sent Interval   124   SPL TRAY No.: 3904   INDEX No.    1004   INDEX No.    1004   INDEX No.    1004   INDEX No.    1004   INTERVAL   INTERV | AMAILTON   Morresitus   124 | PRILLMBTON   Memile Point   58 | Doi:10.10.00.00.00.00.00.00.00.00.00.00.00.0 | Somples after of   Doirty Loke Gound Level   Doirty Loke Boatson   September 15, 197 | Semple start of Set   TOP   ELEV THICK LATITUDE: 42-94-31   W   Semple start of Set   TOP   ELEV THICK LONGITUDE: 42-02-20   W   Semple start of Set   TOP   GEOLOGY BY. PETROLEUM RESOLNEES 150*N1 WATER RECORD   CAMBRIAN   CONTROLEM   OFFRATOR: RAMILING CO. PARILING CO. CORDINATES: 100 NI. 430'E EST. CELLUNG CO. CORDINATES: 100 NI. 430'E EST. CORDINA | WELL NAME: RAM NOS 7 ENNISKILLEN 6-27-XIII OPER AFORE: ARM PETROLEUMS CO: RAWLINGS ORTLLING ORTLANG OC: RAWLINGS ORTLLING GEOLOGICAC CONTACTS: 150 1978 GEOLOGICAC CONTACTS: 58 TOP ELEV. THICK. LATITUDE: 42-54-31 N SEMPLE MATERIAL SEPTIOLEUM SET OF ELEV. CONFIDENTIAL SEPTIMER 15, 1978 GEOLOGICAC CONTACTS: 58 TOP ELEV. THICK. LATITUDE: 42-54-31 N SEMPLE MATERIAL SEPTIMER 15, 1978 GEOLOGICAC CONTACTS: 58 TOP ELEV. THICK. LATITUDE: 42-54-31 N SEMPLE MATERIAL SEPTIMER 15, 1978 GEOLOGICAC CONTACTS: 58 TOP ELEV. LATITUDE: 42-54-31 N SEMPLE MATERIAL SEPTIMER 15, 1978 GEOLOGICAC CONTACTS: 58 TOP ELEV. LATITUDE: 42-54-31 N SEMPLE MATERIAL SEPTIMER 15, 1978 GEOLOGICAC CONTACTS: 58 TOP ELEV. LATITUDE: 42-54-31 N SEMPLE MATERIAL SEPTIMER 15, 1978 GOVERNOR LATITUDE: 42-54-31 N SEMPLE MATERIAL SEPTIMER 15, 1978 GOVERNOR LATITUDE: 42-54-31 N SEMPLE MATERIAL SEPTIMER 15, 1978 GOVERNOR LATITUDE: 42-54-31 N SEMPLE MATERIAL SEPTIMER 15, 1978 GOVERNOR LATITUDE: 42-54-31 N SEMPLE MATERIAL SEPTIMER 15, 1978 GOVERNOR LATITUDE: 42-51 N SEMPLE MATERIAL SEPTIMER 15, 1978 GOVERNOR LATITUDE: 42-54-31 N SEMPLE MATERIAL SEPTIMER 15, 1978 GOVERNOR LATITUDE: 42-54-31 N SEMPLE MATERIAL SEPTIMER 15, 1978 GOVERNOR LATITUDE: 42-54-31 N SEMPLE MATERIAL SEPTIMER 15, 1978 GOVERNOR LATITUDE: 42-54-31 N SEMPLE MATERIAL SEPTIMER 15, 1978 GOVERNOR LATITUDE: 42-54-31 N SEMPLE MATERIAL SEPTIMER 15, 1978 GOVERNOR LATITUDE: 42-54-31 N SEMPLE MATERIAL SEPTIMER 15, 1978 GOVERNOR LATITUDE: 42-54-31 N SEMPLE MATERIAL SEPTIMER 15, 1978 GOVERNOR LATITUDE: 42-54-31 N SEMPLE MATERIAL SEPTIMER 15, 1978 GOVERNOR LATITUDE: 42-54-31 N SEMPLE MATERIAL SEPTIMER 15, 1978 GOVERNOR LATITUDE: 42-54-31 N SEMPLE MATERIAL SEPTIMER 15, 1978 GOVERNOR LATITUDE: 42-54-31 N SEMPLE MATERIAL SEMPLE MATERIAL SEMPLE MATERIAL SEMPLE MATERIAL SEMPLE MATERIAL SEMPLE MATERIAL SEMPLE MATERIAL SEMPLE MATERIAL SEMPLE MATERIAL SEMPLE MATERIAL SEMPLE MATERIAL SEMPLE MATERIAL SEMPLE MATERIAL SEMPLE MATERIAL SEMPLE MATERIAL SEMPLE MATERIAL SEMPLE MATERIAL SEMPLE MATERIAL SEMPLE MATERIAL SEMPLE MATE |

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	011	0	Total	اها			0	RI	00	V	C	A	N			_	_	_		_				_	s	L	JR	I A	N			_						_	L	ı	Œ	v c		-				Som	GEO	DRI	OPER.	٤ F	2
NO (2) T 2 O	L STAIN NOT	UNIT EQU	I Depth Sa	PRECAMBRIAN	CAMBRIAN	2 4 2	BLACK			TRENTON				I		CATARACT						AMABEL																		RIVER	DETROIT		HAMILTON		PRT. LAMBTON		Lake/G	Samples start at	GEOLOGICAL CONTACTS:	00 :	ATOR:	NAME	COUNTY: LAMB
	NOT MATCHING	IV 1324	mples 1973		-[	Shadow Lake	Gull River	Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Meaford Dundas	Queenston	Whirlpool	Manifoulin	Cabot Head	Grimsby	Thorold	Reynales	Irondequoit	Rochester	Gasport	Goat Island	Guelph		A-1 unit C		A-2 unit s	2		B unit		uni+	uni+	E unit	_	Bass Islands	Bois Blanc	Amherstbur	Lucas	Dundee	Morcellus	Zerrie Tom		Drift / Lake bottom		40	PETROLEUM	RAWLING	BLUEWATER GAS &OIL	BLUE	TON
	HING		-a	Ш		œ.							das				<u> </u>						ľ			evap.	carb	anhy	salt	carb.	anhy.	Sall	marker	sha/e	50/1	carb	3/10/8	S		9								0	<u> </u>	S DE	ER C	ER .	7
	INITIAL	REMARKS																							1961	0	1847	0	1820	1693	1682	1449	1426	1370	1330	1215	TENT	937	796	680	442	363	000	100		5			TOP TOP	FILLING	AS &01	NNISKI	TOWNSHIP: ENNISK
	יר סור	G	MQC:																																												684	-				LEN 2	EUNIS
	RECORD		7																																													_	MOINT	20		2-30-IX	ISKILLEN
					i	ZIL	CORED INTERVAL	CONDITION					11-1971		LOGGING CO.:	1				8.63# 2	-	SIZE					510** 5	451	INTERVAL					1964*-1971*	INTERVAL						1964 - 1971	INTERVAL	OT 1. 170 M 140	TOON	COMPLETED:	SPUDDED:	CONFIDENTIAL	LONGITUDE:	LATITUDE:	RIG TYPE:	TOTAL DEPTH:		
757	GAS PRO	OIL	-				AL REC.		CO					$\dashv$	GREAT	٢٥٥				24.0#	-		CASING	_	_	_	UII	0	S	W/	_	_	1	4		INITIAL					+		INITIAL	TOOK.		DECE		82-00	0000				LOT: 30
PERFORATED	PRESSURE PRODUCING INTVL		-		_		ANAL COR	STORED	CORING RECORD		_	_	GRNL	TYPE LOC	SNUS			1941 0 CE		6.	7	ÞΪ	AND TUR		_		300*		LEV.	TER RE				50 BOPD	TURA	9					200 %				ARCH	DECEMBER 1	ARCH	-59 W	M.0E2T:S.0h0T	ELEV.	RBTD	T No.	CONC: IX
OPEN MOLE	00 MCF						CORED INTERVAL		CORD					LOGGED INTERVAL		RECORD	NO TAIL	CEMENTED	MENTED LICE	CASING SHOP	SING SHOP	T HOW SET	NG BECORD				US	_	FLOW	CORD					٦	RECORD						URAL FLOW S.I.	2	0	2, 1977	6, 1976	1978	SEQ:	Ma	684*+		7127	XI
CE	6	S	-				REC ANAL						1	TYPE		-						REC					SULPHUR	RESH	TYPE						API GRAVITY							PRESSURE	00	5				0:		UR			

		CC	UN	TY:		LA	M E	Т	0 N					_	rov	VNS	SHII	P;	М	00	R	E						LO	τ:		3				COI	NCI	ESS	101	<b>4</b> :	ХΙ						_	YE	AF	_	-	97	_	
	FREE SULPHUR IN HFH SALT PRESENT POOR SAMPLE GUAL	Total Depth Sa		CAMBRIAN		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		DC	> TRENTON	IC	IA	2			CATARACI						AMABEL			S	T	UR	I A	N			_					_			100	DI DI DI ROLL	7	-	MAMILTON	AN	PKI. LAMBION	Drift/L	Lake/G	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	DRILLING CO:	WELL NAME:	
	TLA	Samples CTO TI	27.47		Shadow Lake	Gull River	Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Meaford Dundas	Queenston	Whirlpool	Manitoulin	Cabot Head	Grimsby	Thoroid	Reynales	Irondequoit	Rochester	Gasport	Goat Island	Framoso	н	A-1 unit care	anhy	A-2 unit salt	carb.		B unit solt		C unit shale				G unit shale	Bass Islands	Bois Blanc	Ambarah	Dunded	Morcerus		Kettle Point		Drift / Lake bottom	Lake/Ground level	168 ft.		EUM	THEMBLAY DE	~	20117
		REMARKS																				2432	2006	4000	2102	0022	2233	2138	1998	1996	1710	1685	1636	1590	1501	1176	1153	977	979	769	100	407	166			4			TOP	PESOURCE	DRILLING		TOWNSHIP.
		S M C C.																																													655		ELEV			>	TANDON.
			_		NIL	ERVAL	CONDITION					10-24400	LOGGED INTERVA	LOGGING CO.: GREAT				7.00m 20.0m		-	SIZE WEIGHT	CASING				41Ch - 45hh		/AL					- }	INTERVAL						22.50	INITAR		SPL. TRAY No.:				:JAI:			CO-ORDINATES:	RIG TYPE: C	TOTAL DEPTH: 24	Lot
PERFORATED OPEN HOLE	OIL NIL GAS NIL PRESSURE PRODUCING INTYL.	FINAL RESULTS				REC. ANAL CORED INTERVAL	STORED	CORING RECORD				GRNL	L TYPE LOGGED INTERVAL	GUNS	LOGGING RECORD		-	12024 CEMENTED	393 PACKER	1720 CASTNG	SETA	NG AND TUBING RECORD						STAT. I.EV. FLOW	WATER RECORD		_			NATURAL FLOW /	NITIAL OIL RECORD	_					NATURAL FLOW	RECORD	NDEX No.	4, 1977		30,	1, 1977	*	42-53-43 N	M.059 :S.0		PERMIT NO.: 404	NC. AL
HOLE		TS				REC ANAL							VAL TYPE					71 17.00	201 0	4	REC	õ				SULPHUR	FRESH	TYPE						API GRAVITY							טוו דאבטטטאב		2207					SEQ: 1		1	+ 41		

oir		Tot0	9	,		0	RC	00'	VI	CI	AN		I					_				_	s	LL	IRI	A	N								_	I	_	DE	v	ON	IAI		T	T	Som	GEO	GEO	_	WELL	COU
L STAIN NOT		Total Depth Sa	PRECAMBRIAN	NAIGENA	RIVER	BLACK		NO SON	TRENTON						CATARACT					AMABEL																	RIVER	DETROIT		HAMILTON		OI, LAMOTON	Drift/L	Lake/G	Samples start at	EOLOGICAL CONTACTS:	GEOLOGY BY:		z	COUNTY: LAMBTON
NOT MATCHING		Samples 2192	2		Shadow Lake	Gull River	000000	Kirkfield	Vernion	Cohour	Collingwood	Cocension	***************************************	Manitoulin	Cabot Head	Grimsby	Thorold	Reynales	irondequoit	Rochester	Gasport	Goat Island	Eramosa		A-1 unit C		A-2 unit s		Sal	,	C unit	unit	unit	unit	Gunit sa	Bos Blanc	Amherstburg	Lucas	Dundee	Marcellus		Kettle Point	Drift/Lake bottom	Lake/Ground level	80	NTACTS:	PETROLEUM		3	
HING	П	2	1	ļ	9	1	1	1	1	ļ	008		1	1	۵	L		Ц		4		_	1	екар	carb	anhy	sall	onny.	SOIT	marker	shale	salt	arb	shale	shale	1	ľ	L			_	1	1	L	0 ft		S ,	ROLE	NO.56 MOORE	TOV
INITIAL	REMARKS																			3	2168	2137	4112	2100	1980	1974	1891	1756	1754	C/ 41	1416	1382	1260	1156	1133	000	444	494	410		140	80	U	n		TOP	RESOURCE	DRILLING		Ť
T OIL		MQC:					1		1																										1								1	631	190	ELEV.				MOORE
RECORD		1				2 5	2					5	- 5		-						+																				SF	A	T ST	2 8		THICK. LA	CO-1	TO1		
				ř	N.T.	CORED INTERVAL	DOLLION				1.26.12	OGGED INTERVA	LOGGED INTERVAL			4.50m 9.5m	7.00m 20.0		1	SIZE WEIGHT	CASING				•	65*- 80*	INTERVAL				21151-21211	INTERVAL						NIL	INTERVAL		SPL TRAY No :	ABANDONED:	SPUDDED:	IAL:		LATITUDE: 4	ORDINATES:	AL DEPTH:		LOT
GAS PRESSURE PRODUCING		_		_		DEC /		COBING			GANE	1	EAL GUND			# 2186*	1173	4	B	SET AT	AND				180*		STAT. LEV.	EATED			2	NATURAL	INITIAL OF								1865	20002	A JUL	SEPTEMBER	82-16-04	2-46-57	1450°S:	CAR FI	ERMIT No.:	4 CONC
NIL 2	6.2					COBED INTERVAL	STORED	BECORD			T/40.27790	12	LOCCED INTER	RECORD		CEMENTED	CEMENTED	CASING SHOE	CASING SH		TUBING RECORD						FLOW	0000			BOPD	FLOW	RECORD						FLOW		NOEX No.	4.2.4		19,	2	z	: 350°E	PBID. 631*+		II
116*-2122	JLTS				1	BEC WWW		-			AO. DEMC		1		-		986	0	4	REC	RD				SULPHUR	FRESH	ТҮРЕ					API GRAVITY							S.I. PRESSURE		2204				SEQ: 1			т л	0	

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	C N E C N E		Total Depth Samples	PRECAMBRIAN		RIVE R			TRENTON						CATARACT					AMABEL			3	511	UH		N	_										RIVER	-		HAMILTON	_	Trail Dimordia	TOTAL TOO	Luxe / C	Samples start at	EOLOGICAL CO	GEOLOGY BY: PETROL	DRILLING CO:	WELL NAME:	12
	10,1 AZ		mples 2295 ft	A	Shadow Lake	Gull River	Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Menford-Dundoe	Queenston	Whirlpool	Cabot Head	Grimsby	Thoroid	Reynales	lrondequoit	Rochester	Gasport	Goat Island	Eramosa	Gueloh	A-1 unit corp	onhy.	A-2 unit salt	carb	-	in B unit salt	Cunn			unit	G unit shale	Bass Islands	Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus		Kettle Point	METON CONTROL	Cake / Ground lever	TO OF	50	EUM	≺.	MERCURY PE	701170
		REMARKS	7					Ī					+										1	2282	2412	2140	2053	1922	1919	1	۲	+	1612	+	1474	1323	1176	1055	740	615		347	143				TOP	سا	DRILLING	PET-LID.	TOWNSHIP:
			MOC: 7	+			l						-																	-	-												+		010	610	ELEV THICK	-		TITE	MOOKE
			_		N L	RVAL	CONDITION					2000	m	LOGGING CO. GD			7.00m 23.0m	8.63H 24.0	$\dashv$	SIZE WEIGHT	CASING		1	C#12C#3	751 - 100	140*	INTERVAL			1	- CT3/CT3	OF THE CAME					Ш		ZIL	INTERVAL		SPL TRAY No :	ABANDONED:		ML.		LATITUDE:	CO-ORDINATES:	RIG TYPE: C		LOT
PERFORATED	GAS NI PRESSURE PRODUCING INTVL.			_	_	REC. ANAL CORED INTERVAL	STORED	CORING RECOR			-	GRAI	TYPE	COGGING MECOND			14991	# 619 CASING	151 •	_	NG AND TUBING RECORD				225		STAT. LEV. FLOW	WATER RECORD			SHOW	NATORE	NATIBAL GLOW				_				INITIAL GAS RECORD	NOEX	200		3 0	۶ ا		N.O	CAB ELEV.	PERMIT No.:	TO CONC. TII
OPEN HOLE	Y. NIC	FINAL RESULTS				TERVAL REC ANAL		0		_	_	+	LOGGED INTERVAL TYPE	10	-		TED 13361	SHOE	30HS	W SET REC	RECORD	_		SALI	SULPHUR	FRESH	TYPE	Ö				M API GRAVIIT								W S.I. PRESSURE	1	No. 2188	1977	1767	1970	3EU. 1	200		6181+ 41	1004	

_				_	NTY	': T	LA	M	ВТ	010	1	_	_		Т	OW	NSH	IP:		MO	0 O R	E		_			LC	)T:	1	4			С	ON	CES	SIO	N:	11	1			_	_	Y	EAF	_	19		- 1	
D.S.T.(S) ON		D UNIT EQUIV	0.00		PRECAMBRIAN	CAMPBIAN	RIVER	O BLACK		TRENTON		IA	N			CATARACT					AMABEL				LUI	217	AN							_		I		RIVER	-	_	HAMILTON	_	PRT. LAMBTON	Drift/L	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	D .	WELL NAME	COUNTY: LAMBTON
FILE		IV 1558	100	1, UEEC 00100	2	CHOCON CONS	Shadow lake	Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Meaford Dundas	Queenston	Whirlpool	Manifestin	Grimsby	Thorold	Reynales	Irondequoit	Rochester	Goat Island	Eramosa	Guelph	A-1 unit evap	onny	A-2 unit salt	carb.		B unit sall	a C unit snore	56	_			Bass Islands	Bois Blanc	Ambarathura	Dundee	Marcellus		Kettle Paint		Drift / Lake bottom	137 #		PETROLEUM	١_	RCURY	
			REMARKS											Ī								RTCZ		2301	2284	2710	2071	1931	1928	-		1000	1448	1340	1318	1208	1057	953	210		361	133	-	4		TOP	M RESOURCE		MOORE 6-14-III	TOWNSHIP:
TREATMENT			1 3	MOC. 7																																							-	130	601	ELEV THICK.			III	MOORE
				1		N L	CORED INTERVAL	CONDITION				L		LOGGED INTER	LOGGING CO.:		_	7.00m		-+	SIZE WE				007 - 100		INTERVAL			1	NI C	IN EX VAL	2000			L	1	244	INTERVAL		SPL. TRAY No :	ABANDONED:	COMPLETED:	SPUDDED:	LONGITUDE:		CO-ORDINATES:	TOTAL DEPTH:	101.	LOT
PERFORATED	PRODUCING INTVL	GAS PRESSURE	-		_	_	REC.		CORING RECORD				GRNL	INTERVAL TYPE LO	GUNS			13661	6231	40.5# 138° C			_		C.T.O.	-	STAT. LEV.	WATER RECORD				NATURAL	INITIAL OIL					Unio a	NATURAL	INITIAL GAS	3902	SEPTEMBER	SEPTEMBER	ALIGHER	82-15-29 W	42-47-3	: 1650 N: 495 E	2329* RETD	3 2	LOT: 14 CONC:
OPEN HOLE	NTVL.	NIL	FINAL RESULTS		_		ANAL CORED INTERVAL REC	D	ECORD					LOGGED INTERVAL	Z R CONO			CEMENTED	ASING SHOE	S S	SET AT HOW SET REL				מטבאחטא	FRESH		ECORD				FLOW API GRAVITY	RECORD				_	3	FLOW S.I. PRESSURE	Ö	INDEX No. 2213	22, 1977	17, 1977	12, 1978	4		5°E 621°+ 4°		4654	III

		OUNTY	:	LA	мв	ТО	N			_	то	WN	SHII	o;	P	0.0	RE	_					LOT	n:	1	4			cc	NC	ESS	101	V:	٧	11	ŀ			_	١	ſΕΑ	_	13	-		
T I	2	100		C	RI	_	_	IA	N	1	_,	_	_		_	_		_	S	IU	UR	IA	N						_		-	4	_	DE	V	NO					SOUTH	SEC	GEO	DRIL	OPER	
	STAIN	PRECAMBRIAN Total Depth Samples		RIVER	2	RENTON					1	CATABACT					AMABEL																100	DETROIT		AMILION			PRT. LAMBTON	Drift/L	Samples start at	SENT CONTACTO	GEOLOGY BY:	DRILLING CO:	OPER ATOR:	- 8
SALT PRESENT	MATCHING	AN AN AN	Shadow Lake	Gull River	Coboconk	Xirkfield	Cobourg	Collingwood	Meaford Dundas	Whiripool	Manitoulin	Cabot Head	Grimsby	Thoroid	Perceles	Rochester	Gasport	Goat Island	Eramosa	avap.	A-1 unit carb		A-2 unit sall		Sa		Cunit	un:÷	E unit carb	_	Gunit shale	Bass Islands	Amnerstourg	Lucas	Dundee	Morcellus		Kettle Point		Drift/Lake bottom	Lake/Ground level	3.0	PETROLEUM RESOURCE	RAWLINGS DRILLING	BLUEWATER	듺
	REMARKS														1			2392	1000	0000	2222	2212	2114	1979	1974	1710	1605	1597	1511	1250	1228	1049	930	2004	456		190	128		4		107		RILLING	GAS ROIL	OW ANSIIT
, , , , , , , , , , , , , , , , , , ,		MQC: 7																																						0	636	ECEN THICK				WATER-HUSKY MOORE 4-14-VIII
ě	50		NIL	CORED INTERVAL	CONDITION				-	LOGGING CO.: GRE		_			10.75# 40.5#	L.	CA	_1		1,0,	1333	55.4	INTERVAL				NIL	INTERVAL		2402'	2402	2386	2375	132*	INTERVAL		SPL. TRAY No :	ABANDONED:	COMPLETED:	SPUDDED:	CONFIDENTIAL:	LATTIONE:	CO-ORDINATES:		AL DEPTH	
GAS 44 PRESSURE B PRODUCING INTVL 2389*-2391*	2			REC.	STORED	CORING RECORD			GRNL	I GUNS	LOGGING		) IN	12601	1340	SET AT	GAND			100T		40+	STAT. LEV.	WATER RECORD				NATURAL	INITIAL OIL	415	200	7 C P	N CO	MOHS	NATURAL	L GA	3148		MARCH	FERRUARY			1450 45: 3	CAB ELEV.	2404 PATO	
30	FINAL RESULTS			ANAL CORED INTERVAL	RED	RECORD			2100*-2404*	OGGED INTERVAL	RECORD		CEMENTED	CHULNG UM	CASING SHOE	HOW SE	EC						FLOW	RECORD				IL FLOW	RECORD	MCFID -	MCE/D	MON 1	200	_	FLOW	RECORD			- -	N 6		Ez	350°W	EV. 636*+	5	1200
75 MCF/D 50 PSIG 2366*-2377*	ULTS			REC. ANAL		-			긁	RVAI TYPE				OF	n e	T REU	RO			SULPHUR	FRESH	FRESH	TYPE					API GRAVITY		AFTER ACID			000 7010		S.I. PRESSURE		2183				7	SEO.		1 4 4 6	2	3

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	OIL STAIN NOT PINNACLE REEF HEH SALT PRES	Total Depth Sc	PRECAMBRIAN		77 I V E 77	91 AC	_	TRENTON					2	2				1	AMARFI														I		RIVER	_		HAMILTON		PRT. LAMBTON	1	Lake /G	Samples wort of	GEOLOGY BY:	DRILLING CO:	WELL NAME:	
	NOT MATCHING REEF - A1 AND PRESENT PRESENT	Samples 2592 ft	N	Suddow Cake		Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Queenston	Whirlpool	Manitoulin	Cabot Head	Grimsby	Thorold	Irondequoit	Rochester	Gasport	Goat Island	Eramosa	evap	A-1 unit corb		A-2 unit salt	carb	O Chir	:	C unit	D unit salt		F unit shale		Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus	Kettle Point		Drift/Lake bottom	Lake/Ground level	117 ft	LEUI	MBLAY	DOW CHEMICAL	NA COOL
	16 INITIAL 10 GUELPH	REMARKS					Ī		Ī												140	2400	2368	2363	2291	2153	1767	15	1848		1728	t	t	997	873	600	491	200	200	•	4			RESOURCE		TAL CO.	TOWNSHIP:
	OIL	MQC: 7	-	-						-		-				+					+					+					-			I			1			-		620	ELEV   HICK	-			MOOKE
	RECORD			NIC	CORED INTERVAL					. 26.62	.	LOGGING CO.: GREAT		-	_	10.75 40.5#		┾.	CA			1	629*- 635	1170	INTERVAL		1		2586*-2590*	INTERVAL			2592*	25531	2451*	2446*	INTERVAL	SPL. TRAY No.:	ABANDONED:			CONFIDENTIAL:	LONGITUDE:	0-0	YPE:		LOT
111111111111111111111111111111111111111	OIL N GAS 250/PRESSURE OIL				REC. ANAL	STORED	CORING RECO			GEFF	L ITPE LO	GUNS	LOGGING RECORD	6	10470	1971	1221	SET AT	CASING AND TUBINO		_		-			WATER RECORD				TUR.	INITIAL OIL REC		25000 MCF	15000 MCF		>	TURAL	SASS INDE		10			#X154155 X	2,0	CAB ELEV.	PERMIT No:	
OBEN HOLE WITH	25000 MCF/D 25000 P5Is 360 P5Is 2410*-2592				CORED INTERVAL REC. ANAL		RD			ZN3(1 +06CZ=+0+6Z	-		ORD		TO TO TO	CASING SHOE 497	ING SHOE	HOW SET REC.	TUBING RECORD				SULPHUR	FR	34A1 MC	RO				L FLOW   API GRAVITY	ORD		/0 960	70 960	00	3 000	FLOW SI PRESSURE	RECORD 2205			. 1977	1978	SEO:		6200+ 40	4551	IIX

		_	OUN	TY:	_	LA	M	3 T	01		_		_	Т	wc	NSH	(IP	-	١	10	0 R	RE					L	.от	:	2	1	_		со	NC	ES:	1018	N:	1)	(				_	_	Y	EΑ		_	977	_	Ic
	PINNACLE R		Total Depth Samp	CAMBRIAN		20 1 V II V II V II V II V II V II V II V		_	TRENTON	IC	AI	4		_	CATARACT		T	_			AMABEL			SI	LU	RI	AP		_		_	_		_					RIVER	-	70	HAMILTON	AP	-	PRT   AMRTON	Drift/	Samples start at	GEOLOGICAL CONTACTS	GEOLOGICAL CO	DRILLING CO:	WELL NAME:	COUNTY: EMMO
	PRESENT REEF = A1 AND		Samples 2501 ft		Shadow Lake	Gull River	Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Meaford Dundas	Outpaneton	Manifodin	Copor Fedo	Grimsby	Thorold	Reynoles	Irondequoit	Rochester	Gasport	Godt Island	Eramosa.	Guelph	evap.		anhy.			B unit		C unit	D unit salt			G unit shale	Bass Islands	Bois Blanc	Ambarathura	- Donoce	Dundee	Marcellus		Kettle Point		Drift/ Lake bottom	Ground level	22	PETROLLON REJOURCE		TEC SECK	ION
	GUELPH	REMARKS										1	1											2436	2422	2295	2292	1012	3000	CTRT	1792	1752	1712	1626	1370	1349	1186	1076	954	670	555	3	283	144		4		-		DRILLING	NO.17 MOORE 21-IX	IOWNOTIF: MOONE
			MQC: 7																																								1				747	ELEX LIBER	4	,	XI-12 3	ייוסטייר
					ZIC	CORED INTERVAL	ION				1300 -2500		LOGGED INTERVAL T				d.63m 24.0t		13.38m 54.5m	_						680*	1			1		2413	INTERVAL	-							INTERVAL	O. C. 11774 1901	20.	ABANDONED	COMPLETED:	SPUDDED:	CONFIDENTIAL	LAIT OUE	L ATITIONE	TOTAL DEPTH: 25	9	LOT: CA
PERFORATED	PRESSURE 3.	194				REC. ANAL COR	STORED	CORING RECORD		_	CALP	2	SACA	PING		2396	1551	1690	155	SET AT	AND	200				200	1	WATER RE					NATURAL	INITIAL OIL R						1000	NATURAL FLOW	NITIAL GAS F	1971 IN		NAM V	APRIL	W DO CO SO		10 00 00 00 W	CAB ELEV.	ERMIT No.	CA CONC: AA
OBEN HOLE	N/R 343 MCF/D 320 PSIG	FINAL RESULTS				ANAL CORED INTERVAL REC		CORD				- 1	LOGGED INTERVAL	750000		CEMENTED	MENTED	SING SHOE	CASING SHOE	HOW SET		20000				SULPHUR		RECORD					FLOW API GRAVITY	OIL RECORD					250	-1	FLOW S.I. PRESSURE	RECORD CASA	1			5. 1977	25. 1077		3	th +4949	4402	L
						C. ANAL					TMPL	N P	TYPE					969		REC.						HUR	I	ñ					RAVI						1	DC 1/	USSE						-	-		•		

_			NUC	TY:		LA	M	ВТ	01	4	_		_	T	OW	NS	HIP	:		MC	00	RE				_	LOT	r: —		21	_		co	NCE	ESS	ION	:	χ					_	YE/		1977	_	
	D UNIT EQUIV HEH SALT PRES PINNACLE REEF	Total Depth So	ECAMB	CAMBRIAN		SIVE S	BI ACK	DO	TRENTON	10	IA	N		-	CATARACT		T	-		2	AMARF		5	T	UR	I A	N			_		_				+	-	DETROIT	VC	HAMILTON	IAN	PRI. LAMBION	1	Lake/C	Samples stort of	DRILLING CO : TREMB	OPER ATOR:	
	1707 ENT - A1 ANI	11 COO 11	AN 2350		Shadow Lake	Gull River	Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Meaford Dundas	Queenston	Whirlpool	Manitoulin	Cohot Hand	Inoroid	Reynoles	Irondequoit	Rochester	Gasport	Goat Island	Eramosa	Gueloh	A-1 unit carb	anhy.	A-2 unit salt		Sacran	5	C unit	unit	E unit carb	F unit shale	Gunit shale	Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus	Zerie Tom	_ [	Drift/Lake bottom		150 ft	LEUM D	TECUMSEH	THO SECK
	AND GUELPH	REMARKS																					1	0000	2214	2160	0	2050	0	1910	1750	1713	1629	1372	1350	000	545	664	552		279	1	4		107	-15 e	GAS STOR.	NO TO MODET
		3000	000				I									-								+																				647	LEV THICK.			10000C
					NIL	CORED INTERVAL	CONDITION						INTE	LOGGING CO.:	-			10.75m 40			C			•		680*	INTERVAL				NIL	INTERVAL			P 547	2027	2233	2220*	INTERVAL	0. 0	SPL TRAY No :	COMPLETED:	SPUDDED:	CONFIDENTIAL:	LONGITUDE	RIG TYPE:	TOTAL DEPTH:	LOT
DEBEOBATED	OIL GAS PRESSURE PRODUCING	-				REC.	STORED	CORING		_		GRNL	TYPE	A	OGGING	41172	1009	40.5# 5644	151 9	SET A	CASING AND T					170"	STAT. LEV.	WATER				NATURAL	INITIAL OIL		TCOOL	23200				_	388	AUGUST	JUNE		82-53-09	141 °N:	2350 PBTD	LOT: ZI CONC
	125000 900	FINAL RESULTS				ANAL CORED INTERVAL	RED	RECORD				2170 1-23461	LOGGED INTERVAL		RECORD	CEMENTED	CEMENTED	CASING SE	CASING SH	HOW SET	TUBING RECORD						FLOW	WATER RECORD				AL FLOW	RECORD		TOTAL TOTAL	MCF/D			FLOW	SRECORD	NOT NO	N)	18,	₽.	ξZ	133°W 647°+	Ö	× × ×
OPEN HOLF YES	MCF/D PSIG 2220 2347*	ULTS				L REC ANAL						2	RVAL TYPE		-			10E 564 *	SHOE	T REC.	RD					SULPHUR	TYPE					API GRAVITY					200 PSIG	9	S.I. PRESSURE	7700	0000	7	~	w i	SEO: 1	44 44	7	Ó

$\top$	7	# TO	-	ī	TY:		LAI	_	_		IAI	N .	1	точ	/NSI	HP:	1	101	ORE			SIL	.U F			т:	21		_	(	CON	CES	SIO	N:		EV	-	IIA	N	1	Y	EA		197		WELL	COL
D.S.T. (S) ON FILE	PINNACLE RI	70 71	Total Dabin Sa		CAMBRIAN	2 2	BLACK		TRENTON					CATARACT					AMABEL																RIVER			HAMILTON		PRT LAMBTON	Drift/L	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	OPER ATOR:	LL NAME:	COUNTY: LAMBION
FILE	REEF - A1 A	IN LUC	odilpiae a . o .	22.50		Shadow Lake	Gull River	2000	Verulam	Cobourg	Collingwood	Menford Dundas	Whirlpool	Manitoulin	Cabot Head	Thorold	Reynoles	Irondequoit	Rochester	Goat Island	Eramosa	Guelph	A-1 unit evan	anhy	A-2 unit salt	carb	Sa com son		C unit	D unit sall	F unit snore	G unit shale	Bass Islands	Bois Blanc	Amherstburg	Dundee	Marcellus		Kettle Point		Drift/ Lake bottom	00	NTACTS:	PETROLEUM RESOURCE	THEMBLAY DRILLING	DOW MOORE	
	AND GUELPH		REMARKS					-	+			n										2318	0 2200	+	Н	5. 2113	-	1891	Н	+	1736	+	1126	1037	920	407	n * :	230	122		4	7.		RESOURCE	DRILLING	E 3-21-XII	TOWNSHIP:
TRE		. OIL RECORD	3 4 0 .	2000								+																					l								120	103	ELEV THICK				MOOKE
TREATMENT:		RD			1.	NIL	CORED INTERVAL	CONDITION			۰,	בטפפבט ות	1 "		2.3021	7.00m	8.6311	10.75¤	SIZE				04/,	122	INTERVAL				NIC	INTERVAL		2471 *	2415*	2368*	2300	OZOJ.		SPL TRAY No :	ABANDONED:	COMPLETED:	SPUDDED:	CONSTITUTE.	1	CO-ORDINATES:	TOTAL DEPTH:		LOT
PER	PRO	GAS	-	_			REC.					1 - 2471 GRAIL	GREAT GUNS	1 1		20.0# 13			WEIGHT SET A		_	_	2003	2 3	ST	WA					INITIAL		_		-	- 1		No: 3869				000		1		PERN	12
PERFORATED (	PRODUCING INTVL.	SSURE	FINAL				ANAL CORED INTERVAL	STORED	מפועה מקרומס		i	THE COURSE INTERVAL	SNUE	LOGGING RECORD	DO CEMENTED	_	520 CASING	CAS	SET AT HOW SET					30.	LEV. FLOW	WATER RECORD				NATURAL FLOW	OF BECOM	31 MMCF/D	24 MMCF /D	24.5 MMCF /D	24 MMCF /D	ATURAL FLOW	L GAS RECORD	INDEX No.	1 4 4	24.	APRIL 12. 1	S = 1		132515: 2001E	PBTD.		CONC: XII
A1 CARBONATE	2270 -247	31MMCF/D 960 PSIG	FINAL RESULTS				ERVAL REC ANAL					NIERVAL TIPE	1		0	5	SHOE	SHOE	SET REC	000			SOLPHOR	FRESH	TYPE					API GRAVITY			940	950	960 PSIG	S.I. P.		lo. 2190		1977	1977	250. I	200		CO1++ 4+	4335	

D.S.T.	Z H ZH		-	CAMB		LA COLUCT	R	DO	V T		1/	AN	T	I	ТО	_	ISH	P		M	00	AMARE	E		SII	LU	RI	-	.OT	-	23	_	_			NCI		I	T	DE	T	ON	- 1		PRT	T	Samples start at		GEOLOGY BY	OPER	¥ 1	COUNTY
(S) ON FILE	SALT PRESENT	REMARKS	2012	AMBRIAN	Shadow Lake	Gull Riv		_	RENTON Verulam	Cobourg	Collingwood	Meatord Dundas	Queenston	Whiripool	_	CATARACT Cabot Head	Grimsby	Thoroid	Reynoles	Irondequoit	Rochester	_	DC	Eramosa 2640		+	carb	anhy		anhy.	+	marker	Cunit	salt	carb.	unit shale	G unit   shale   1373	2	Rois Blood 1087	Lucas	Dundee	8	Ī	Kettle Point	LAMBION LORG DOTTOM		fort at 200 ft.			DOW CHEMICAL CO	AME DOW CHEM NO. 55	LAMBTON
4377		XS SCC.			7	CORED INTERVAL	CONDITION						LOGGED	147		2.381	4.50m	7.00H	9.631	13.381	SIZE							26												2496					COMPLETED:	920		ELEV THICK.	m		젊	MOORE
PERFORATED OPEN HOLE	OIL NIL GAS NIL PRESSURE PRODUCING INTVL.	FINAL RESULTS				VTERVAL REC. ANAL CORED INTERVAL REC ANAL		CORING RECORD				1*-2642*   GRNL   2450*-2642*   DENL	٦	CO. GREAT GUNS	LOGGING RECORD	26421	11.0# 2199*	20.0# 2142*	-	61.0# 206 CEMENTED	T H	CASING AND TUBING RECORD						TAP DANGE STATE TOWN THE	WATER RECORD					NTERVAL NATURAL FLOW API GRAVITY	INITIAL OIL RECORD					SHOW	13	INITIAL GAS RECORD	TRAY No.: 3877 INDEX No. 2198	100001	TED: AUGUST 29, 1977	OCTOBER 29	82-24-15 W	42-54-11 N	NATES: 3093°S: 660°E	2642 PBTD. 2465	Т	LOT: 23 CONC: XII

		_	_	TY:	_	L	1 A	IB"	0	N		_		тс	WN	ISH	P:	۲	101	0 R	E	_	_	_		_	LOT	:	2	3		_	CC	ONC	ES	SIO	N:	Χ	1			_	_	_	YE		-	977	_	T
	n H	0.01	1	CA	-	_	-		_	CI	AR	T	+	-	0			7		D	_	Т	S	T	JR	1 A	N	_		_			_					_	-	-	E NIV	NA	120			Sample	SEOL	DRILL	OPER	WELL
	SALT P	0.00		CAMBRIAN	1 1	BLACK	2000		TRENTON						CATARACT					AMABEL																		RIVER	TROOM		HAMILTON		PRT. LAMBTON	Drift/L	Lake/G	Samples start at	GEOLOGICAL CONTACTS:	DRILLING CO:		WELL NAME: DO
	PRESENT PRESENT		AN 2470 ft		Shadow Lake	Gull River	Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	No de direction	Whiripool	Manitoulin	Cabot Head	Grimsby	Thoroid	Reynales	Irondequoit	Rochester	Gasport	Goat Island	Eramosa	evap	A-1 unit carb		A-2 unit salt		מחוו		C unit	unit		F unit shale	G unit shale	Bass Islands	Bois Blanc	Amherstburg	Dundee	Michellas	Marcallus	Kettle Point	-	Drift/Lake bottom		190 ft	NTACTS	PETROLEUM RESOURCE		DOW CHEM NO.56 MOORE 23-
		REMARKS																									2365	2214	2067	0161	1863	1630	1744	1392	1370	1180	1144	950	675	240	0.62	261		15			TOP	ROLEUMS	L CO.	.56 MOORE
			MOC																		-			1					-		-									-					626	-	ELEV	10		DRE 23-XII
							0					-								-	-																		1	1	Iss	Þ		10	0	_	THICK	RIG		î
					NIL	CORED INTERVAL	CONDITION				T	00000	LOGGING CO.					9.63# 36	-	SIZE WI	0						INTERVAL				NIL	INTERVAL						,	NICKVAL	NITEDIA	SPL. TRAY No.:	ABANDONED:	COMPLETED:	SPUDDED:	CONFIDENTIAL:	LONGITUDE:	LATITUDE:	RIG TYPE:	TOTAL DEPTH:	
	GAS PRESSURE	-				REC.		CORIN		-	G. N.	Î	O GREAT GUNS	LOGGING				36.0# 1472	$\rightarrow$	WEIGHT SET AT	ASING AND		_	_			STAT. LEV.	WATE								_	_		NATURAL	INITIAL	1		OCTOBER	SEPTEMBI	OCTOBER	82-24-2	17-54-1	ROT	24770 +	DEBMIT NO
	OIL NIL GAS NIL PRESSURE PRODUCING INTVL.	FINAL RESULTS				ANAL CORED INTERVAL	STORED	CORING RECORD			T430.004101	10	NS NAME OF THE PARTY OF THE PAR	IG RECORD				CEMENTED	CEMENTED	T HOW SET	TUBING RECO						FLOW	BECORD				RAL FLOW							FLOW	RECORD	INDEX No.		ER 8, 1977	29,	8.	⊙ ¥ :	2 0	1 5 6 C	0	No. 4318
מפת בסוק		ULTS				IL REC					CACE	- 1	DVA		_	_			4	REC	RO						347T					API GRAVITY							U.T. TRESSURE	2000	2220		7	7	- 1	SEQ:		6261+151		30

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| H SALT F   | 00000  | PRECAMBRIAN  | CAMBRIAN      | RIVER  | _          |  | TRENTON  |            |  
  |   |  | -                                  |  |  |  
   |   | AMABEL   |  |  | S  
  | 20   | RI   | A N   |  |      |  |       |   
   |                    |        | T  |   | RIVER  | _  | 70  | HAMILTON   
   | N  | PRT. LAMBTON | Drift/  | Samples start at  | EOLOGICAL C      | GEOLOGY BY:   | DRILLING CO: | VELL NAME   
  | COUNTY: LAMBION  |
|  |  | 2504   |               | Shadow Lake  | Gull River | Kirkfield  | Verulam  | Cobourg    | Collingwood  
  | Menford   | Whirlpool  | Monitoulin                         | Cabot Head   | Thorold  | Reynoles   
   | Irondequoit   | Rochester  | Gasport  | Good Island  | Guelph   
  |  |      | unit  |  |      | B unit   | Cunit | D unit sall   
   |                    |        |  | Bois Blanc                                    | Amherstburg  | Lucas  | Dundee  | Marcellus  
   | Kettle Point   | 2            | Lake bottom   | 0   | 0                | 4   | TREMBLAY D   | DOW MOORE   
  | DI ON TO   |
|  |  | 200  |               |  |            |  |  |            |  
  |   |  |                                    |  |  |  
   |   |  |  |  | 2259   
  |  | 2236 | 0000  | 2105   |      |  |       | 1830  
   | 1750               | 1318   | 1150   | 993   | 937  | 645  | 532   | 240  
   | 120  |              | 4   | 616   | $\vdash$         |   | RILLING      | 1-23-XII  
  | TOWNSHIP: MOURE  |
|  |  |  |               | NIL SOURCE   | CONDITION  |  | 1240*-2218   | 1240*-2220 | 2040*-2503   
  | 3 2   | CO   |                                    |  | _  |  
   | _   | _  | CAS  |  |  
  |  | 635  | INTERVAL  |  |      |  | NIC   | INTERVAL  
   |                    | 2503   | 2468   | 2306'   | 2294*  | 2239*  | INTERVAL  | SPL. TRAY No.:   
   | ABANDONED:   | Ö            | SPUDDED:  | CONFIDENTIAL  | THICK: LATITUDE: |   | Ħ.           |   
  |  |
| OIL NII. GAS 4.3 M MC PRESSURE 935 PS PRODUCING INTVL. 223 | FINAL RESU   |  |               | AEC.   | 0          | CORING RECORD  | CRND   | DE NE      | GRAL F   
  | CDAIL   | AT GUNS  | LOGGING RECORD                     | 4 0 2 2 2  | 1325 CEMENT  | 536 CASING   
   | 124 CASING  | SET A  | AND  |  |  
  |  |      | FLOW  | 20   |      |  |       | URAL FLOW   
   | OIL RECORD         |        |  | -   |  | +  | - 1   | 1  
   |  | 30,          | 7,  | 30. 1078  |                  | 0.8: 100.M  | < 0          |   
  | 1 1 X  |
| 2503*  | cc   | П  | Т             | L  | A M        | _  | ON   | TMPI       | מחצור ר  
  | 1   |  | Ow                                 | NSH  | IP:  | 5369   
   |   |  | RE   |  | SI   
  |  | ম    | LC  |  | 2    | 3  |       |   
   |                    |        |  | _   | PSIG ~   | K I  | 1   |  
   |  |              | Y   | E AF  | ₹:               | 19  | 77           | WE  
  | CO   |
SALT	tal Depth Sam	PRECAMBRIA	H	RIVER	BLACK		TRENTON	
  |   |  | _                                  |  |  |  
   |   | AMABEL   |  |  |  
  |  |      |   |  | 9.0  | line   |       |   
   |                    |        |  | ŀ   | RIVER  | DETROIT  | I   | HAMILTON   
   |  | PRT. LAMBTON | Drift/Lal   | mples start at  | OLOGICAL CON     |   |              | ELL NAME:   
  | COUNTY: CAMBION  |
| - A1 AND   | 11 1002  | П  |               | Shadow Lake  | Coboconk   | Kirkfield  | Verulam  |            | Medford Dundas   
  | Queenston   | Whirlpool  | Manitoulin                         | Grimsby  | Thoroid  | Reynales   
   | rondequoit  | A CONTRACT   | Goet Island  | ramosa   | Suelph   
  |  |      | A-2 unit sall   | carb.  | 9    | D  | Curit |   
   |                    |        | Bass Islands   | Bois Blanc                                    | Amherstburg  | unos de la companya d | Norcenta  |  
   | <ettle point<="" td=""><td></td><td>ke bottom</td><td>119 ft</td><td>TACTS:</td><td>PETROLEUM R</td><td>DOW CHEMICA</td><td>DOW MOORE 5</td><td>TO</td></ettle>  |              | ke bottom   | 119 ft  | TACTS:           | PETROLEUM R   | DOW CHEMICA  | DOW MOORE 5   
  | TO   |
| GUELI  | 0  |  |               | +  |            |  |  | 1          |  
  |   |  |                                    |  |  |  
   |   |  |  |  | 2242   
  |  | 2022 |   | 2098   | 2000 | 1000   | 1844  | 1814  
   | 1728               | 1 1009 | 1150   | 1099  | 956  | 655  | 547   | 262  
   | 117  |              | 1720  | 503   | TOP ELEV         | ESOURCE   | L CO.        | ч   
  | TOWNSHIP: MOURE  |
|  |  |  | 1             | CORED  | CONDIT     |  |  | 1          |  
  | LOGGE   | Loggin   |                                    | 7.0  | 8.6  | 10.7   
   | 10 C  | 2178   |  |  |  
  | 210  | 111  | - N   |  |      |  |       | -   
   |                    | 229    | 228  | 227   | 225  | 224  | N   | SPL. TI  
   | ABANG  | COMPL        |   |   | THICK.           | CO-ORD  | TOTAL        |   
  |  |
| OIL<br>GAS<br>PRES   | -  |  | ř             | REC.   |            | COR  |  |            |  
  | D INTERVAL TY   | NG CO GREAT G  | Logg                               | 20.0#  | 24.0# 1  | 40.5#  
   | 40.0#   |  | CASING AN  |  |  
  |  | _    | RVAL  |  |      |  | NIL   |   
   | INITIAL            | Ú,     | UN O   | 29  | Un c   |  |   | П  
   |  |              | 7   | 82  |                  | DINATES: 1800 N   | DEPTH: 2339* | PERMIT  
  | LOT: 23 CONC: XI   |
| 000  | EINA: DEGILLTO   |  |               |  | 1          | NG RECORD  |  |            |  
  | PE LOGGED INTERVAL  | SNR  |                                    | R. CEMENTED  | 2 CEMENTED   | CASING SHOE  
   | 90 CASING SHOP  | AT HOW SET   | TIRING BECORD  |  |  
  |  |      | 1   | 1  |      |  |       | Н   
   | OIL RECORD         | 940    | 930  | 920   | 900  | - 1  | - 1   |  
   |  | 00 1         | v a   |   | 14 N             | )0 ° W  | Ö            | - 1   
  | NC: XII  |
|  | OIL 11. OIL HFH SALT PRESENT OIL  ORS 4.3 M MCF/D  PRESSURE 935 PSTG  PRODUCING INTVL. 2236*-2503*  PINIACLE REEF - A1 AND GUELPH  PRODUCING | FINAL RESULTS  FINAL RESULTS  OIL  NII  OIL  NII  OR SALT PRESENT  PRESSURE 935 PSIG  PRODUCING INTVL. 2236*=2503*  OT odul Depth Samples 233.1 ft MGC / FINAL R  FIN | FINAL RESULTS | 2504 H MOC: 7  FINAL RESULTS  OIL NTI  PRESSURE 9.35 M ACF/D  PRESSURE 9.35 M ACF/D  PRESSURE 9.35 M ACF/D  PRESSURE 9.35 M ACF D  PRESSURE 9.35 M ACF/D  PRESSU | VIT        | TOTAL PRESSURE 1935 PAGE NITE ANAL CORED INTERVAL REC. ANAL CORED INTER | CONDITION   COND |            | 1240 - 2220   DENI   1795 - 2220   TMPL   25   TMPL | 2040 + 2500   GRIL   2020 + 2500   DENL   2000   DENL   2000 + 2500   AND   CORD   MILENAL   TYPE   LOGGED   TYPE   LOGGED   TYPE   TYPE   LOGGED   TYPE   TYP | Deal   Looging co.:   GREAT   GUNS | LOGGING CO: GREAT CUNS   LOGGING FRECORD   CONTINUAL   TYPE   LOGGING FRECORD   TYPE   TYP | THOOL   COUNTRY   COUNTR | The part   The property   The part   The p | 101   101 | 13.38H   48.0H   124*   CASING SHOE   13.38H   49.0H   124*   CASING SHOE   13.38H   49.0H   13.5H   49.0H | SIZE   WEIGHT   SET AT   HOW SET   REC.   MANBEL   REC.   MA | SIZE   WEIGHT SET AT   HOW SET   REC.   SIZE   WEIGHT SET AT   HOW SET   SIZE   WEIGHT SET AT   SIZE   WEIGHT SE | SIZE   WEIGHT   SET AT   HOW SET   REC.   SIZE   CASING AND TUBING RECORD   SIZE   WEIGHT   SET AT   HOW SET A | Date | CASH   CASH | INTERVAL   SALLEY   FLOW   FRESHIP   FLOW   STOREO   FRESHIP   F |      | CONTON   C | Math  | Note   1996   1997   1996   1997   1996   1997   1996   1997   1996   1997   1996   1997 | NUIT   ANN   16836 | 1750   | Marie   1820 | March   1250   246 87   4.2 MHCF/0   935 9316 | Note   1200   240   240   250   240   25 | Sile      | American   American | STATE   STAT | ANALYSIS   STATE   S | 120          | Part   Part | Total   1/2   Comment   1/2 | March            | The color   The | Top          | Comparison   Com | COUNTY   C |

		D	_	_	T	T.		OR		0 10		I A	N			OW	NSI	HIP	:	S	101	1 B I	RA	5	SI L	UF	21 4		Τ:	_	1			-	CON	CES	551	JN:	_	DE'	_	) N	1AI	N	T	T	/EA	_	-	97	_	COL
		UNIT EQUIV	Total Depth Samples	TACCAMONIAN	CAMBRIAN		RIVER	BI ACK		TRENTON						CATARACT					0	AMART.																	RIVER	DETROIT		HAMILTON			PRT. LAMBTON	Drift/L	Lake /G	GEOLOGICAL CONTACTS:	GEOLOGY BY:	OPER ATOR:	LL NAME:	COUNTY: LAMBTON
		IV 1473	04.72	34/10		Shadow Lake	Gull River	Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Meaford Dundas	Queenston	Whirlpool	Manitoulin	Cohot Want	norota	Reynoles	Irondequoit	Rochester	Gasport	Goat Island	Eramosa	Guello	A-1 unit care	anhy	A-2 unit sall	carb		B unit salt		C unit shale		F unit shale		Bass Islands	Bois Blanc	Amherstburg	Lucas	Dundee	Marcelius		Kettle Point		Drift/Lake bottom	Lake/Ground level	ONIACIS:	PETROLEUM	BAWINGS DETINING	UEWATER	
			REMARKS	-									6			-	-						2116	1000	0000	+	+	+		1759	+	1	+	+	+	+	1096	1018	916	706	605		402	173		4		100		GAS &OIL	TRUE SOMBRA	TOWNSHIP:
			MQC: /																															-				I								000	20.5	ELEV THICK	4		BRA 7-1-VII	3
				L	_	NIC	CORED INTERVAL	CONDITION						LOGGED INTER	LOGGING CO.:		_		8.63H 24		-	7.0			1	710*- 720		INTERVAL				-	NT.	NTERVAL		1				NIL	INTERVAL		SPL TRAY No :	ABANDONED:	COMPLETED:	SPUDDED:	CONFIDENTIAL:	_	40 -	AL DEPTH:		LOT:
DEBEODATED	PRESSURE PRODUCING		7		_		REC.	STORED	CORING RECORD				GRNL	INTERVAL TYPE LO	SAL IS			1265	•	175		144			_	0 200		STAT. I.EV.	WATER R			_	22.00	NATION A				_				П	3670		OC TOBER	SEPTEMBER	~		1050°N:	2142° PBTD		1 conc:
D OBEN HOLE	NIV	NI C	FINAL BESULTS				ANAL CORED INTERVAL REC	D	ECORD					LOGGED INTERVAL	10000	0000		EMENTED	CASING SHOE	ASING SHOE	HOW SET	AND TUBING RECORD				SULPHUR	FRES	FLOW TYPE	ECORD				104	E COX							FLOW	1	^		28, 1977		28. 1978		J.	n on	4573	VII
			-		_	_	EC. ANAL							TYPE				1113	620*	146	REC.					HUR	I	ЭВ					LILANING	ADI GBAVITY							S.I. PRESSURE						-	•				

_				_	YTY	:	LA	ME	3 T (	N		_		_	то	WN	ISH	P:		SI	ОМ	BR	Α				1	LOT	:	1		_	_	CON	ICE	SSI	ON:		Χ					_	Y	EA			7.7		To
		DUNI	0		000	L		_	-	-1	CI	AN	1	╀		<u></u>	_		_	_	_	_	_	s	ILL	JR	AI	N	_	_			_		_	_	L	_	DE	V				0		Samp	SEOL	GEOL	סאורו	WELL	NOON
		TER ANALYSIS	Copin		CAMBRIAN		RIVER			RENTON						CATARACT					AMABEL																	RIVER	DETROIT		HAMILION			PRT. LAMBTON	Drift/L	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	DRILLING CO:	NAME:	COUNTY: LAMBION
		TV 1812 YSIS ON FILE	0	moles 2265 **	2	Shadow Lake		Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Queenston	Whiripool	Monitoutin	Cabot Head	Grimsby	Thoroid	Reynales	Irondequoit	Rochester	Gasport	Goat Island	Guelph		A-1 unit corb		A-2 unit sall		B unit		C unit shale			Funit shale		Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus		Kettle Point		Drift/ Lake bottom	200 11	000	EUM	TREMBLAY DRILLING	CONSUMERS	
		14	REMARKS																				2246	1022	2198	2090	2087	2052	1927	000	1	1835		1704	16340	1123	1083	962	742	665		437	220		=		TOP	RESOURCE	RILLING	GAS CO.	I OWNSHIP:
				M 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									-		L								1						_	-															0.40	500	ELEV.			JMBHA 2	COMONA
							0	0					-	-	-							-						-						+								S	D .	0	S	20	THICK. L		RIG		A
						שור	CORED INTERVAL	CONDITION				1.2022	LOGGED INTERVAL	0.00				7.00m 20.0H	8.63m 24	10.75m 40.5m	SIZE WEI	CA				745*	150 *	INTERVAL				NIL	INTERVAL						NIL	INTERVAL		SPL TRAY No :	ABANDONED:	COMPLETED:	SPUDDED:	CONGITODE	LATITUDE:	CO-ORDINATES:	TYPE:		LOT:
	PRESSURE	GAS					REC.	STO	CORING		_	PANNE	1775	AT GUNS	LOGGING			15231	6671	2091		CASING AND T				\$000	50*	STAT, LEV.					NATURAL FLOW	INITIAL OIL		_	_			-11	INITIAL GA	3273	FEBRUARY	JAMUARY	DECEMBER	/ h=/ 2=28	41-24-24	15.0	CAB	=	T CONC.
OBEN POLE	Z	ZIL	FINAL RESULTS				ANAL CORED INTERVAL	STORED	RECORD			19226261			RECORD			CEMENTED	CASING SHOP	CASING SHOP	HOW SET	AND TUBING RECORD				10		FLOW	0000					RECORD						FLOW S	RECORD	NDEX No.	N: (		200	W 1079	Z	e e	ELEV. 590*+	4320	×
			LTS				- REC ANAL					OT. DENE	_	1		-		but	OF 667		T REU	30				SULPHUR	FRESH	TYPE					API GRAVITY							I. PRESSURE		2185				SEQ. 1		1	14 +0	0	

PSD	701		0		0	RE	00	VΙ	CI	ΑŅ		Ι										SI	LU	RI	A	N							Ī		T		DI	ΕV	01	NIA	N/		Γ		Son	GE(	a DRI	OP	WELL	COL
D UNIT EQUIV 1 SPRINGVALE AT POOR AGREEMENT	Total Depth Sa	PRECAMBRIAN	AMBRIAN	Z < F Z	BLACK			TRENTON						CATARACT					AMABEL																		RIVER			HAMILTON		PRT. LAMBTON	Drift/L	Lake/C	Samples start at	GEOLOGICAL CONTACTS	DRILLING CO:		z	COUNTY: LAMBION
1321 T BASE OF NT BETWEEN	Samples 1998 ft	П		Shadow Lake	Gull River	Cobocook	Kirkfield	Verulam	Cobourd	Collingwood	A Condition	Whiripool	Monitoulin	Cabot Head	Grimsby	Thorold	Reynoles	irondequoit	Rochester	Gosport Island	Eramosa	Guelph	W. I OUIT GROD			A-2 unit salt		B unit		C unit	D unit salt	E unit carb.		G unit shale	Bass Islands	Bois Blanc	Lucos	Dunded	Morcellus		Kettle Point		Drift / Lake bottom		82 ft.	100	RAWLINGS D		RAM NO.54	
F06 S108	DEMARK																			2161	2	1946	1931	1812	1805	1759	1727	9047	1376	1345		1204	1104	1081	965	994	806	707	742	298	80		Cal			401	RICELNG RICELNG	UMS LT	SOMBRA	WNSHIP:
BLANC AND SAMPLES	MQC:																																											602	H	ELEV	η	0	8-18-VII	
OIL H BOPD OIL NIL BOPD PRESSURE NIL PRODUCING INTVL.					CORED INTERVAL REC ANAL CORED INTERVAL REC ANAL	CONDITION	CORING BECORD			T 2001.   QUNE   T.350 2000.   DENE	ב בסספרט ואורים אאר	WITE GREAT GUNS	۲0		4.50H 9.5H 2002 CEMENTED	20.0# 1119 CEMENTE	1 0 C	TO CALL OF THE THE	SIZE WEIGHT SET AT HOW SET RE	4			1	200*	82* FR	INTERVAL STAT. LEV. FLOW TYPE	EATED DECODO			1950*-1962* 4 BOPD	INTERVAL NATURAL FLOW API GRAVITY	INITIAL OIL RECORD					240	NATURAL PLOW OF PRESCORE	INITIAL GAS RECORD			24,	SPUDDED: MAY 11, 1977	AL: JULY 24, 1977	LONGITUDE: 82-20-11	THICK   LATITUDE: 42-39-17 N	CAB I	PB.T.D.	PERMIT No.	LOT: 18 CONC: VII

	_	UNI	ry:		- 11			N	-	. Bi	_	Т	OW	NSI	HIP	;	C A	1.9	TO	R		ILL		_	LOT	r: -	1	0	С	ONO	ES	SIO	N:	1	V E V I	-			Т	-	AR	_	197		15
	Total Depth Sa		CAMBRIAN	2 4 7 2	BLACK	т	7707	_	Ī	N N			CATARACT		T			1	AMADE:				781	- A	NI									DETROIT		HAMILTON	-	Tax. Dance	DRT I AMBTON	Lake/G	Samples start at	GEOLOGICAL CONTACTS:	DRILLING CO:	OPER ATOR:	
	Samples 410 ft			Shadow Lake	Gull River		Kirkfield	Cobourg	Collingwood	Meaford-Dundas	Queenston	Whirlpool	Manifoulin	Cabot Head	noroid	Reynales	Irondequoit	Rochester	Gasport	Goat Island	Eramosa	evap	A-1 unit corb		A-2 unit salt		B unit		Dunit sall		G unit shale	Bass Islands	Bois Blanc	Lucas	Dundee	Marcelius	-	Kettle Point	MRTON	Lake / Ground level	55 ft		PETROLEUM F	MONTGOMERY BLAKE	OI ASK!
	MADKS MQC:													379	040	320		282	280	205	105	n																	C C	674		TOP ELEV	RESOURCE	10101	CATCTOR
	,			NIL	CORED INTERVAL REC.	CONDITION				ZIC	LOGGED INTERVAL	۱ " ا					В.63п 24.0н	SIZE WEIGHT				145*	72*- 80*						INTERVAL					327*- 330*	AL		.		OND FIED: N	.IAL:		- 1	YPE: DINATES:	TOTAL DEPTH: 41	
OIL NIL GAS 8 MCF/D PRESSURE 90 PSIG PRODUCING INTVL.	n ZA Dnorth				EC. ANAL CORED INTERVAL REC	STORED	COBING RECORD				TYPE LOGGED INTERVAL		LOGGING RECORD			327 BOTTOM PAC		SET A	S AND TUBING RECORD				-	FR	STAT. LEV. FLOW TYPE	WATER RECORD			NATURAL FLOW   API GRAVITY				0 200	NON AD		L GAS RECORD	2542 INDEX No. 19		OVEMBER 9, 1977		1-	43-03-34 N	B ELEV. 674*+ 3	+10 * PB.T.D. 4557	NC. AV

	30	70	T	Т		0	RE	00	VI	CI	A N	_	Г						_		-		SI	LU	RI.	A N						_		Г	D	ΕV	10	NIA	AN		Γ		8	9 6	9	0.5	£ 6
	E CEW	Total Depth So	1 W	CAMBRIAN	2 7	BLACK	T	1	TRENTON					CATARACT						AMABEL															RIVER	DETROIT		HAMILTON		PRT. LAMBTON	Drift/	Lake /	Samples start at	GEOLOGY BY: PE INUI	DRILLING CO :	OPER ATOR:	- 15
	281	Samples 515 ft.			Shadow Lake	Gull River	Cobook	Xirkfield	Verillam	Coningwood	Meaford Dundas	Queenston	Whirlpool	Manitoulin	Cabot Head	Grimsby	Thorold	Payodequoit	Rochester	Casport	Godt Island	Eramosa	Guelph	A-T unit evap.	carb	A-Z unit sail		B unit salt	0		D unit salt		Bass Islands	Bois Blanc	Amherstburg	Lucas	Dundende	Marcolline	Kettle Point		Drift / Lake bottom		91 ₼	E C 3	MONTGOMERY	WELLANDPO	1811191
	XE M AX X											462	451	9449	412	370	725	2000	162	200	212	98	91																		N			KEUUUKCE	BLAKE	GAS S	NO. 1 GATINGBORGH
	Į.	MQC:																																								584	-	73 13	1	Y	ΛI
		7																																									_	Z Z Z	20	-	13
						CORED INTERVAL	CONDITION				NIL	LOGGED INTERVAL	LOGGING CO.:					0.65m 24.0m	+					236		INIEKVAL	П		741	21	INTERVAL				378*- 390*			SPL. TRAY No :		COMPLETED:	SPUDDED:	P.		LATITIOF: 4		TOTAL DEPTH: 5	LOI
PRESSURE 1 PRODUCING INTVL 378 - 390	OIL		_			REC. ANAL COR	STORED NE	CORING RECORD	_			TYPE		LOGGING RE	_	_	000	1111	SET AT	AND				10*	200	SIAT. LEV. F	WATER RE				NATURAL NATURAL			0 3	200	MATORAL	NATION H	2857 INI				m]	79-28-54 W	3400+ : N4242	AB ELEV.	515 PERMIT No.:	NC.
N/R 160 PSIG INTVL. 360*- 390* 458*- D OPEN HOLE	NIL NIL					ANAL CORED INTERVAL REC	0000	ORD				LOGGED INTERVAL		RECORD			BAKEFOOT	BAREFOOT	HOW SET					SULPHUR	SIII DHUR	LOW TYPE	RECORD			+	FLOW API		,	MCF/D	MCF/D	10 MCF/P	0	NDEX No. 18			25, 1977	1977	SEO:	34	584*+	OTAH	76411

_		(	:00	NT	Y:		L	ΙN	C	DLN	1		_	1	OW	NSI	HP	: G	ΑI	N:	S B	0 R	0 U	GH			LO	T:		17			CO	NCI	ESS	AOI	1:	1	ŀ				_	Υ	EA			97		
	30		함	٦	٨		0	RI		VI	21/	AN			_	_	_		_		_	_		SIL	U R	1 A	N	_							_	1	_	DE	E۷	_	HA		╛		Som	GEO	GEO	DRIL	₩ t C C	E 11 E
	CEW		Total Depth Sc	PRECAMBRIAN	CAMBRIAN	X   V   X	BLACK		-	TRENTON					CATARACT					1	AMAREL																214.02	DETROIT			HAMIL TON		PRT, LAMBTON	Drift/L	Samples start at	GEOLOGICAL CONTACTS	GEOLOGY BY:	DRILLING CO:	WELL NAME	
	279		Samples 525	Z		Shadow La	Gull River	Cabacank	Kirkfield	Verulam	Collingwood	Meaford Dundas	Queenston	Whirlpool	Manitoulin	Cohot Head	1107010	Reynales	Irondequoit	Rochester	Gasport	Goat Island	Eramosa		A-1 unit		A-2 unit		Sa	0	C unit				G unit SA	Base Island	Amnerstourg	Lucas	Dundee	Marcellus		Kettle Point		Drift/Lake bottom	Found lovel	ONI AC IS:	PETROLEUM	MONTGOMERY BLAKE	WELL ANDPORT	HARRY
		æ	± ∓			ke	1	1		1	ľ	ndas	I		_	1	1	-		L		۵		- 1	Carb	anhy	salt	carb.	anhy	marker	shale	salt	carb	shale	shale	1	9	-	ļ	L			1	1	11.	7			PORT.	210
		REMARKS											477	460		100	100	240		299	267	239	157	119																				-		200	RESOURCE	LAKE	T GAS C	0.1
			MQC:																																									777	501	FLEV	1		SY	PORSNIA
			1				CO	00		1			LO	ГО														+											-		SP	AB	8	SP	38	I HICK. LA				
						NIC	CORED INTERVAL	NOITION				NIL	LOGGED INTERVAL	LOGGING CO.:		_			6.00m 24.0H	╄	CA		236 9	150	108 108	10	INTERVAL				461*- 465				4611- 465	# C C	1 3 C C C C C C C C C C C C C C C C C C	i	INTERVAL		SPL. TRAY No .:	ABANDONED:	COMPLETED:	SPUDDED:	CONGIL ODE.	CALLODE	CO-ORDINATES:	RIG TYPE:	A DEBTE	
	OIL GAS PROI		_			_	L REC.		0	_					5		_			+	၂၈	H	_	_		-	STAT.	8				-	INITIAL	_	л •		-	•	-	NIT	2721			TI TI	7-61	70-0	372	CAB	NON THE NAME OF	NGOG
	OIL N GAS PRESSURE 1 PRODUCING INTVL 375 - 389	I	_	_			ANA	STORED	ORING				TYPE		OGGING				1190		AND T		16*	70	161		LEV.	WATER				NATURAL	AL OIL	,	177	2 4	2 0	2	NATUR	INITIAL GAS F	1		MARCH	RIADY	1000	10-88-04	372 N: 578 E	ELEV.	NO.	AT NO
	NI 2 17 17 89*	FINAL RESULTS					ANAL CORED INTERVAL	RED.	CORING RECORD				LOGGED INTERVAL		RECORD			HAREFOO	BAREFOOT	МОН							FLOW	RECORD				TURAL FLOW	RECORD	-	17 MCE /D	E	O MCT/O	200	AL FLOW	GAS RECORD	INDEX No.		29. 1977	14.	00	Z	78 €		5	
	15 MCF/D 10 PSIG 362*- 367 461*- 465	STINS					WAL REC ANAL						TERVAL TYPE					_	7	SET REC			SULPHUR	SULPHUR	FRESH	FRESH	TYPE					API GRAVITY	I		170 PSIG		170 001		S.I. PRESSURE		. 17		77	77	77	SEO. 1		591++ 11	00	280

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			Total Denth So	PRECAMBRIAN	200	RIVER	BLACK		TRENTON						CATARACT						AMABEL																	RIVER	DETROIT		HAMILTON		TAIL LAMOTON	Drift/	Lake/0	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	D	WELL NAME:
			Samples 1850	Z		Short Niver	Coboconk	Zirkrieid	Veruiom	Cobourg	Collingwood	Meaford Dundas	Queenston	Whirlpool	Manitoulin	Cabot Head	Grimsby	Thorold	rondequoir	NOCTICE IN	Gasport	Goat Island	Eramosa	Guelph	A-1 unit	a	A-2 unit s	0		B unit s			D unit o				Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus	70110	-	Drift/ Lake bottom	Lake/Ground level	102	ONTACTS:	PETROLEUM RESOU	CRITCHE	MAWSON
			2	+	+		1	+	+	+	-	das			-	-	1	-	+	1			L	+	GAOD	+	+				\$	shale	t	SHOIR	shale			-			+	+	+	+	-	2 1		UM RE	IELD,	1.00
		MARKS			1	1	-	ļ		-	ļ							1	1			L		0440	1430	1997		1342	1340	8011		1075	070	000	840	720	640	480	190	105		1	$\downarrow$		>		TOP	RESOURCE	G. F.	.1 MCGILL
			M O C:																																										715		ELEV		IELD, G. F.	IVPAY
			1		Ī														Ī																							T					THICK.			VPAY 3-5-XIX
			_		1	COMED INTERVAL	CONDITION			_		NIC	LOGGED INTERVAL	-				7.00# 17		+					3100	1054	INTERVAL					1540 *	INTERVAL			_			NIL	INTERVAL	0. 1	SOL TONY NO.	OBANDONED.	SPUDDED:	CONFIDENTIAL:	LONGITUDE:	LATITUDE:	CO-ORDINATES:	AL DEPTH:	×
PERFORATED	GAS PRESSURE PRODUCING	_	_			KEC.		CORING RECORD			_		TYPE		Logging		1	17.5# 9689		OF A	GAND				180		STAT. LEV.	WATER F		_	· ·	WOHS.	NATURAL FLOW	-	_	_	_	_		NATURAL	INITIAL GAS RECORD	2716	ALICHET	MAT	JULY	81-38-41	43-14-03	641 N:1312	1853' RBID	PERMIT No.:
ED OPEN HOLE	NIL NIL	FINAL RESULTS				ANAL CORED INTERVAL	מים	RECORD					LOGGED INTERVAL		RECORD		100000	CEMENTED	CASING SHOE	10W 3E	113			ŧ	0.7	חד ו	FLOW	RECORD				+	7	7000	_			_		L FLOW S.I.	RECORD	1 1 ET 6 E	1077	, t	0.3	2	z	15.E		4411
D E		TS				KEC ANAL			-				AL TYPE				000	5000	_	1	-			000	SI DHID	FRESH	TYPE						API GRAVITY							I. PRESSURE	3	L n d				SEQ: 1		2	•	

|                        | _  | INT   | Y:   | М  |   | _                          | _  |  | _   
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   |  | _       | 41  | _                                     | (                               | ON  | CES  | SIO  | N:                 |   
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| PRINGVALE<br>EN SALT P | Depth  | PRECAMBRI   |  | RIVER  | BLAC  |                            | _  | -  |   
   |  |  |   | CATARACT   |  |   |   
  |             | AMABEL   |  |   | T  |  |  
   |  |         |   |                                       |                                 |   |  |  | 100                |   
  |   | _                     |  | PRT. U   | Drift/L  | Lake/G   | OLOGICAL CO                                
   | SILLING CO: | WELL NAME:  |
| SE                     |  | AN  |  | Shadow Lake  | Gull River  | Kirkfield                  | Verulam  | Cobourg  | Collingwood   
   | Medford Dundas   | Whiripool  | Manitoulin  | Cabot Head | Grimsby  | Thorold   | Reynales  
  | Irondequoit | Gosport  | Goat Island  | Eramosa   | evap   |  | 0  
   |  |         | B unit  | Curit                                 |                                 |   | G unit shale   | Bass Islands   | Bois Blanc         | Lucas   
  | Dundee  | Marcellus             | Kerrie Point   |  | ake bottom   |  | 7  
   | EUM         | BRETT SUNBST  | | | | | | | |
| BOIS                   | _  |   |  |  |   |                            |  |  |   
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   | 1408   |         |   | -                                     | _                               | +   | Ħ  | 740  | 560                | 181   
  | 117   |                       |  |  | 2  |  | TOP  
   | Time .      | BST #9 MC   | | | | | | | |
| ANC                    | MQC: 7   |   |  |  |   |                            |  |  |   
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   |  |         |   |                                       |                                 |   |  |  |                    |   
  |   |                       |  |  |  | 624  | $\vdash$                                   
   | -{          | MCGILLIVRAY   |
| OIL                    |  | _   |  | NIL NEC.   | CONDITION DEC   |                            |  |  |   
   | 5  | -2   | Ĭ   | 4.7#       | 9.5# 1   | 20.0#   | 3 40  
  | 40-04       | CASING   |  |   |  | 142*   | 130°   
   | 1  |         |   | 1742*-1812*                           | - INI                           |   |  |  | _                  | 1651*-1659*   
  | INTERVAL  |                       |  |  |  | AL:  | LATITUDE:                                  
   | RIG TYPE:   | PERN  |
| FINAL                  |  |   |  | $\top$   | 1   | ORING RECORD               |  |  |   
   | Ц,   | GUNS I OGGED INTERVAL  | GGING RECORD  |            |  | 165 CEMENTED  | CHMENTE   
  | CASTNE      | IND TUBING RECORD  |  |   | _  |  | FLOW   
   | RECORD   |         |   |                                       | TUR!                            |   |  |  |                    | SHOW  
  | TURAL FLOW S.I.   | GAS RECORD            | 2000   | 21,  | 15,  | 21. 1977   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
   | ELEV. 6241+ |   |
|                        | SPRINGVALE AT BASE OF BOTS BLANC OIL OIL OIL OIL OIL OIL OIL OIL OIL OIL | TOTAL DEPTH SOMPLES 1900 (1 REMARKS OIL 65  SPRINGVALE AT BASE OF BOTS BLANC OIL 65  HEN SALT PRESENT OIL 65  PINNACI'S PEFF — A1 AND GIFF DH | PRECAMBRIAN  Total Depth Samples 1900 // MQC: 7  FINAL SPRINGVALE AT BASE OF BOIS BLANC BEN SALT DRESENT OAS NI PINNACIE PEFF - A1 AND GIFF DH | Samples 1900 11 MOC: 7 FINAL E AT BASE OF BOTS BLANC OIL OPEREVAL OIL OF STREET OF STR | PRECAMBERIAN  PRECAMBERIAN  TOTAL DEPTH Somples 1900 11  PRECAMBERIAN  MOC: 7  SPRINGVALE AT BASE OF BOIS BLANC BEN SALT PRESENT  PINVACTE PEFF - AL AND GLIFT DH  DISCONOMINATE PEFF - | PRIVACE RESENT AND GIFT DH | B LACK GLOCON CORDITION CONTROL STORED OF STOR | PREVACE BESENT ALAND GLEFT PALAND GLEFT PALA | TOTAL DEDIT SALT PRESENT  DE SALT PRESENT  PREVACE SEFE - ALAND GLEF DH  CORNOR RECORD  CORNOR RECORD  CORNOR RECORD  CONDITION  CORNOR RECORD  CONDITION  CORNOR RECORD  CONDITION  CORNOR RECORD  CORNOR RECORD  CORNOR RECORD  CORNOR RECORD  CORNOR RECORD  STORED  CORNOR RECORD  CORNOR RECORD  STORED  STORED  CORNOR RECORD  STORED  CORNOR RECORD  STORED  STORED  STORED  STORED  CORNOR RECORD  STORED   TRENTON Cobourg  O TRENTON Cobourg  O TRENTON Cobourg  O TRENTON Control Contr | A Collingwood  Collingwood  Cobourg  New York Indian  Cobourg  Renary  River  Command  Comman | Collingwood   Collingwood | Monitoulin | Cataract   Cabor Head   Cabor | CATARACT   Cabol Head   2-000   4-78   1872*   CEMENTED | CATARACT   Grimsty   Gri | Reynoles    | The noted quality   10.75H   40.0H   13.70   CASING SHOE | AMABEL GASPORT 1834 SIZE WEIGHT SET AT THOM SET INCAME AND TUBING RECORD WEIGHT SET AT THOM SET INCAME AND TUBING RECORD WEIGHT SET AT THOM SET INCAME AND TUBING RECORD WEIGHT SET AT THOM SET INCAME AND TUBING RECORD WEIGHT SET AT THOM SET INCAME AND TUBING RECORD WEIGHT SET AT THOM SET INCAME AND TUBING RECORD WEIGHT SET AT THOM SET INCAME AND TUBING RECORD WEIGHT SET AT THOM SET INCAME AND TUBING RECORD WEIGHT SET AT THOM SET AT THO | Gosport   1008   Gosport   1834   Gosport   How SET   Gosport   How SET   How | AMABEL   Gasport   1834   SIZE   WEIGHT   SET AT   HOW SET   Incodequoit   19.5 Horoid   19.5 Horo | Galebh   Gasport   1898   Gasport   1898   Gasport   1898   Gasport   1898   Gasport   1898   Gasport   1898   Gasport   1894   Gasport   1894   Gasport   1894   Gasport   1997   GASING AND TUBING RECORD   1998   1972   CASING SHEET   1978   GASPORT   1998   1972   CASING SHEET   1978   GASPORT   1998   1972   CASING SHEET   1978   GASPORT   1979   19 | Animal   A | Animage   1504   126*   130*   60*   140*   142*   60* | A2 unit | Anabel   Reynoles   Anabel   Cabbor   Head   Cabborols   Allingwood   A   A   A   A   A   A   A   A   A   A | California   1144   1742*=1812* | Curit   Same   1122   INTERVAL   Fund   State   Cathering   Cabeconk   Boss islands   740 | See Blanch   See | DEFROIT   CAMPARIAN   181   1651*-1659*   SHOW   SET AT   NATURAL FLOW   SET AT   NATURAL FLOW   SET AT   NATURAL FLOW   SET AT   NATURAL FLOW   SET AT   STATE   SECORD   DETROIT   Luces   187 | Admiliton   Marcelius   117   Marcelius   117   Marcelius   Marc | Amilton   Moreilus   117   Moreilus   1181   151*-1659*   NOEX No. 4 | PRILLAMBTON   PRILLAMBTON   PRILLAMBTON   PRILLAMBTON   PRILLAMBTON   PRILLAMBTON   PRILAMBTON   PRILLMBIONED   COMPLETED: OTOBER 211, 1977   ABANDONED: OTOBER 2 | CAMBERIAN   COMPONIES   CONFIDENTIAL   NOVEMBER 21, 1977   CONFIDENTIAL   CONFI |             | SPECIAL CONTACTS   115 ft   100 |

Τ	PIO		-	VTY	T	_	01			-	-	-	N	1	-		NS	HIP		MI	G	IL	. L	1 V	-	ILL	_	ΙA	N			4	1		_	-	JINC	-	1	ON:	_	NE	-		_	N	-	T	_	Some		_	97 DRIL		E III	COU
904	D UNIT EQUIV		Total Depth Samples	CAMBRIAN		RIVER	BLACK		1014	100000000000000000000000000000000000000						CATARACT						AMABEL																			RIVER	DETROIT		1	TON TON		PRT. LAMBTON	Drift/L	Lake/G	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	DRILLING CO:	OPER ATOR:	NAME:	COUNTY: MIDDLESEX
	- A1		mples 1900 fr	2	Citation Indian	Should Niver	Copoconk	200	Kirkfield	Verulam	Cobourd	Collingwood	Meaford Dundas	Queenston	Whirlpool	Monitorin	Cobot Hand	Grimehy	Thorota	Doundadao	100000000000000000000000000000000000000	Rochester	Goot Island	Erdinosa	Guelph	ечар	A-1 unit carb	anhy	A-2 unit salt	carb.	on anhy.	B unit solt		C unit shale	D unit sall	1	F unit shale		Bass Islands	Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus		Kettle Point		Drift/Lake bottom	Lake/Ground level	500 ft	5	PETROLEUM	NEWPORT . L		URS T	LESEX T
	AND GUELPH	REMARKS																					1007	1007	OTOT		1516	1499	0	1404	0	1193	-S.		1114	984	882	1	T	570	469	182	117					2		, ,	TOP	RESOURCE	LORNE T.		GB #7 MC	TOWNSHIP:
	I		MQC: 7																							-																							626		ELEV. THICK.				MCGILLIVRAY	MCGILLIVRAY
PERFORATED YES OPEN HOLE	OIL 65 BOPD GAS NIL PRESSURE NITVL 1715*-1809*	FINAL RESULTS				NITER VAL. REC. AVAIL CORED INTERVAL REC. ANAL	ION STORED	000	CORING RECORD				*-1900* GRNL 1374*-1900* DE	픾		OGGING BECORD		11 72 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A BOOK NO ON STANFORD	100 0 100 0	100 mt 10	SIZE WEIGHT SET AT HOW SET REL	CARLO AND TERMO DECORD				195 - 504 60 10 BBLS	834							INTERVAL NATURAL FLOW API GRAVITY	INITIAL OIL RECORD					1700*-1710*	SHOW	INTERVAL NATURAL FLOW S.I. PRESSURE	INITIAL GAS RECORD	SPL. TRAY No.: 3168 INDEX No. 452			FEBRUARY	JUNE 40	81-43-30 W	LATITUDE: 43-14-16 N	CO-ORDINATES: 1304 15: 8	CAB	DEPTH: 1900 * RBID.	N.B. PERMIT NO.	RAY LOT: 41 CONC: N.B.

Т	0	_	_	T	Τ			_	LK	_	AF	_	Т	TO	WNS	SHI	P:		СН	AF	LC			_	L E	_	T:	5		_		COI	NCE	SSI	ON		DE	-	- NI	AN	1	Т	_	AF			977 o <b>s</b>	18
	CRITICAL M	Total Deptil ou	ECAMO	CAMBRIAN		RIVER	BLACK		TRENTON					2	244					AMABEL									-							RIVER	DETROIT		HAMILTON		TAI. LAMBION	DET I AMBTON	Lake/G	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	OPER ATOR:	COOK T. TOTAL
	MISSING SAMPLES		1199		Shadow Lake	Gull River	Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Queension	Whirlpoot	Manitoulin	Cabot Head	Grimsby	Thorold	Reynales	Tonde Guois	Doshort	Goat Island	Eramosa	Guelph	A-1 unit evap	anhy	A-2 unit salt		S B unit SON		Cunit	D unit sall		F unit shale	Bass Islands	Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus	Nerrie Point	-16	Drift/ Lake bottom	Lake/Ground level	₩ R02		EUM.	NEW METALORE MIN.	METAL OF N
	LES	REMARKS	-												1213	1203	1193	1190	1000	1007	9/6	929	907	0.50	200		840		15	754		660	1	084	424	520	260	208			1	C	t		10P	l/m	RE MIN.	NO SO CHAD
		-11	6000																																								758		ELEV THICK.		NEW METALORE MIN. TOTAL DEPTI	OTTEVILLE 6-5
					NIC	CORED INTERVAL REC.	CONDITION				7	FORGED INTERVAL	10,					4.50m 9.5m	9 007 19 04					000	222	ERVAL				NIL	INTERVAL	2	.C121 4021	1200-1204	1198-1199	1195*-1198*	1194 1195	INTERVAL	IN COLUMN TO SERVICE OF THE PERSON OF THE PE	н	-		JAL:			TES:	11 12	1
PERFORATED OF	OIL NIL GAS 218 M PRESSURE 585 P PRODUCING INTVL. 11	FINAL RI				EC. ANAL CORED INTERVAL	STORED	CORING RECORD				- THE COGGEO INTERVANC	1	LOGGING RECORD			\$ 10 mm	1194 CEMENTED	385 AT 1100	S AND I COING RE						STAT. I.EV. FLOW	WATER RECORD				URA	NITIAL OIL RECORD	בום הנדוט	201 MCF/D	172 MCF/D		CF		INITIAL GAS RECORD	DAG! NOTEY NO	OCTOBER 40 IN	* D.T		2	42-46-05 N	.EV.	PB.T.D. 121	MAC. ATT
OPEN HOLEYES	MCF/D PSIG 1194*-1213*	RESULTS	_			REC ANAL					_		1			_		_	200	-				טטבאחטא	FRESH	TYPE					API GRAVITY							S.I. PRESSURE		762	11	19//	77	SEQ: 1		40 +* BG/		121

	SP	Toto	٦	,		0 F	D	ov	10	ΙA	N			_				_			_	s	LU	RI	AN	d								_	L	0	EΥ	v 0	NI	AN	_	Γ		Som	GEO	DRII	OPER	
	SPRINGVALE	Total Depth Samples	PRECAMBRIAN	NAIGENA	IVE	BLACK		TRENTON						CATARACT					AMABEL																	RIVER	DETROIT		HAMILTON		PRT. LAMBTON	Drift/L	Lake/G	ples start at	GEOLOGY BY: PETRO	DRILLING CO :	OPER ATOR:	
	AT BASE	mples 1360	AZ	Oliver Annual	Gull River	Coboconk	大irkfield	Verulam	Cobourg	Collingwood	Meaford-Dundas	Queenston	Whirlpool	Monitorities	Grimsby	Thorold	Reynales	Irondequoit	Rochester	Gasport	Contract of the contract of th	Guelph			-	A.2 mit sall		B unit salt		unit	up it	E unit care		Bass Islands	Bois Blanc	Amherstburg	Lucos	Dundee	Marcellus	Kettle Point		Drift/Lake bottom	Lake/Ground level	272	PETROLEUM	MITCHELL	NEW META	4
	OF BOIS BL	ft.									Н	1358	1354	1201	1249	1241	1239		1180		+	960	H	0.00	Sy.	.p. 890	+	11	5	a/e 800	1	720	t	-	490	-	360	245				0		72	- R	• ELGIN	NEW METALORE MIN.	NO. 51 OF
	BLANC	MQC: 7																																									721	-	F 50 C	i	2010	ADI OTTEV
PRE	OIL				CORED INTERVAL REC.	NOI	0				ZIC	INTERVAL	LOGGING CO.:			_		24.0#	II	CASING	_				601- 851	3			985*		INTERVAL	INITIA			1254*-1255*	1252*-1254*	+	-	SPL. TRAY No.: 2450	NDONED:			AL:	LONGITUDE: 80-2	┵		TOTAL DEPTH: 1360*	TORE NO.51 CHARLOTTEVILLE A-7-11
SSURE DUCING INT	FINAL RE				ANAL CORED INTERVAL REC		CORING RECORD					TYPE LOGGED INTERVAL	20000			318 BAREFOOT	1251 CEMENTED	CEMENTE	ET AT HOW SET	AND TUBING RECORD				TRESH	UNDIFF	0			MOHS		ATURAI	AL OIL RECORD			78 MCF/D   610 PSIG	22 MCF/D	Ξ	NATURAL FLOW S.I. PRESSURE			NOVEMBER 24, 1977	25,	R 24. 1977	80-23-40 W SEQ:	"S: 588"W	ELEV.	RB.T.D. 1318*	NC.

			-	ITY		_	R	-	-	_	_		_	1	01	VN:	SHI	P:	C F	IAI	R L	0 T	TE	-	1 L			LO	τ:		7	_			СО	NC	ES:	SIO	N:	_	٧		_		_	_	_	YE	Al	_	_	97		< 1.
			Total Depth Samples	CAMBRIAN		RIVER	BL ACK	D	TRENTON	10	14	I			CALARACI						AMABEL		T	S	II L	UR	IA	N		_			_		_					RIVER	_	V (		HAMI TON	N	PRT. LAMBTON	Drift/	Lake/	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	DRILLING CO:	OPER ATOR:	WE NOWE VE
			Innies 1367 fr	2	SUGGON LOKE	Gull River	Coboconk	Kirkfield	Veruiam	Cobourg	Collingwood	Meaford Dundas	Queenston	Whirlpool	Manitoulin	Cabot Head	Grimsby	Thorold	Reynales	Irondequoit	Rochester	Gasport	Goat Island	Eramosa	Guelah	A-1 unit carb	onhy	A-2 unit sall	carb.		B unit salt					F unit shale	G unit shale	Bass Islands	Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus		Kettle Point		Lake bottom	Lake/Ground level	Th 002	'n	EUM			NEW METAL
		REMARKS											1366	1358	1340		1260	1250	1242	1235	1185	1172	986	,00	060	948	947		898	892		867	823		720	627	602	550	489	368		250					2	,		TOP	RESOURC	ELGIN	ME MIN.	ORE 30
			M O C :														Ī																									Ī						261		ELEV	m			30 CHARLOTTEVILLE
			2																																									10						THICK.		20 ;	77	REOTTEVILLE 7-
					NIC.	CORED INTERVAL	CONDITION					NIL	LOGGED INTERVAL	LOGGING CO.:		_	5.50m 14.0#			=	SIZE WE	CA		202	2004	255	671- 175	INTERVAL					NIL	INTERVAL						1	12511-12671	INTERVAL		SPL. TRAY No :	ABANDONED:	COMPLETED:		JAL:					TAL DEPTH	7-7-0
DE DE CONTEN	PRODUCING INTVL					REC.		CORING			_		TYPE		LOGGING		1239	263	250 9	13670	SET A	CASING AND TI				584	58*	STAT. LEV.	WATER	_				NATURAL	INITIAL OIL	_		_		_	-		INITIAL GA	7589		SEPTEMBER	SEPTEMBER	SEPTEMBER	90-22-08	61-44-24	578 N: 545 E	CAB ELI	1365° PRTD	DEDANT NO
	1001	FINAL RESULTS				ANAL CORED INTERVAL	RED	CORING RECORD					LOGGED INTERVAL		OGGING RECORD		CEMENTED	BAREFOOT	CASING SHOE	CEMENTED	T HOW SET	UBING RECO						FLOW	RECORD					AL FLOW	RECORD						MCF/D	FLOW	GAS RECORD	INDEX No.		29,	23	29, 1978	>	Z	45°E	EV. 7521+	5	4574
OBEN HOI EVEC	MCF/D PSIG 1251*-1267*	ULTS				L REC ANAL			_		_		RVAL TYPE					_	10E 80 *	4	T REC.	RD		0000000	SULPHUK	FRESH	FRESH	TYPE					-	API GRAVITY								S.I. PRESSURE		559					SEQ: 2			1 2 4	1	4

	dS B		TAUC	Ī		0	RD	0	/1	CI	AN		I		_							_	_	SII	UR	11 4	N										L,	_	-	01	NIA	AN.	I	Ι		Sam	GEO	DRIL	OPE	¥ 19 1
	8 UNIT EQUIV SPRINGVALE A	rordi Depin So		CAMBRIAN	7 7 7	BLACK		NEW LON						-	CATABACT					1	AMABEL																	RIVER	DETROIT		HAMILTON		PRT. LAMBTON	Drift/I	Lake/0	Samples start at	GEOLOGICAL CONTACTS:	DRILLING CO:		WELL NAME INT
	T BASE	Somples Aco.	1360		Shadow Lake	Gull River	2000	Verdiciti	Copourg	Cohours	Collingwood	Queension	Whirlpoot	Manitoulin	Cabot Head	Grimsby	Thorold	Reynales	Irondequoit	Rochester	Gasport	Goat Island	Eramosa	Guelph	A-1 unit evap	anhy	A-2 unit salt	carb		B unit salt	Current	Cupit Soll				Bass Islands	Bois Blanc	Amherstburg	Lucas	Marcellas	Mala	Kettle Point		Drift/Lake bottom		492	ONTACTS:	MITCHELL, ELGIN		METALORE
	OF BOIS BLANC	REMARKS					+		+		on					1255	1249	1244	1236	1161	1100	1065		958	0 930	t		6. 910	4		040	+	1	640	T	П	460	360	402	2001				0		-	TOP	ELGIN	ORE MIN.	METALORE NO.49 CHARLOTTEVILLE 3-8-A
	NC	340.																																						-					696	- 1-	ELEV THICK			LOTTEVILLE
,	T T O O	_				CORED INTERVAL REC					NTC	LOGGED IN ERVAL	LOGGING CO.:			_		14.0#	17.0H	WEIGHT	CASING				277"	125*- 140*					1000.	ZVAL						1263*-1264*	1061 - 10630		SPL. TRAY No : 265		COMPLETED:		CONFIDENTIAL:				EPTH:	
DEBEOBATED OBEN	1L 56	FINAL RESULTS				ANAI CORED INTERVAL	CORING MECORD					THE LOGGED INTERVAL	4	LOGGING RECORD				BAREFO		SET AT HOW SET	AND TUBING RECORD						STAT. LEV. FLOW	WATER RECORD			SHOW	NATURAL FLOW	INITIAL OIL RECORD					172 MCF/D	WCE /D	ő	57 INDEX No.		19,	APRIL 27, 1977	,61	22-30 W	42-41-35 N		RBID 133	
DEN POI E VEC	MCF/D 261*-1264*	ULTS				BEC INNA						KVAL	1						_	T REC.					FRESH	FRESH	TYPE					API GRAVILY							U.I. PRESSORE		751		7	7		SEQ: 1		50+ 00		UN .

		-	UN	ry:	١	IOR	F	L	K_	_		_	T	IWC	1SH	P:	СН	ΑR	L	) T :	r E '	VII	LLI	E	U	от:	 9	 	-	COI	NCE	SS	ON	:	11	_			_	_	,	YE.	_	_	19		-
		Total Depth Si		CAMBRIAN	RIVER	O BLACK	T O	TRENTON		IA	2		-	CATARACT					AMABEL		I	SI	LU	RI	AN		_	_	_	_	_	I		T V T Z	0			HAME TON	_	PRT. LAMBTON	Drift/	Lake/	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	2 D	WELL NAME:
		Samples AUTO II.	212		Shadow Lake	Gull River	NITKTIGIO	Verulam	Cobourg	Collingwood	Meaford Dundas	Queenston	Menicolin	Cabot Head	Grimsby	Thoroid	Reynales	Irondequoit	Rochester	Gosport	Eramosa	Guelph	A-1 unit evap.	carb	A-Z unit som		B unit salt		unit		F unit shale		Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus		Kettle Point	4	Drift/Lake bottom	Ground level	243 ft.	ONTACTS:	PETROLEUM	NEW METALO	NE
		DIT S A D X S										1345	7007		1263	1246	9 11 11	1000	1164		266	942		927		884		810		684	500	270	2/4	000	141	243					2			TOP	RESOURC	RE MIN.	RE 25 C
		3 4 4 4	-								I			-							-				-																	731		ELEV THICK.	m		4
			_		ZIC	CORED INTERVAL REC.					NIL	LOGGED INTERVAL	OCCING CO.				8.63H 32.0H	_		CASING	945	502*	2551	•	ART 1074			NIL	INTERVAL	2		1	12467-1263	502	243	INTERVAL		SPL. TRAY No.: 6		COMPLETED:	SPUDDED:	AL:	LONGITUDE:	LATITUDE:	CO-ORDINATES: 6	TAL DEPTH:	2-9-II
פר פר פר פר פר פר פר פר פר פר פר פר פר פ	OIL NIL GAS 240 PRESSURE PRODUCING INTVL. 1	TINAL BRACETO		_	_	EC ANAL CORED INTERVAL	CORING RECORD					TYPE LOGGED INTERVAL	LOGGING MECOND		_	1234 CEMENTED	266 ° CASTING 3	CACTNE	SET A	AND TUBING RECORD	60▼	661	389	GH - CO	MAILLEY, FLOW	WATER RECORD			NATURAL FLOW	NITIAL OIL RECORD			75 MCF/D	SHOW	MOHS	NATURAL FLOW	INITIAL GAS RECORD	6532 INDEX No.		26,	•	-41	80-23-09 W	-43-10 N	650'S: 625'E	евтр. 134	PERMIT No.: 45
OBEN HOI EVEC	MCF/D	BULTS				AL REC ANAL		-				ERVAL TYPE		-			SHOC SAN	+	-	200	SALT	SULPHUR	FRESH	FRESH	EDCCH I YPE				API GRAVITY				650 PSIG			S.I. PRESSURE		481		7	7		SEQ: 2				4559

_		COL	INT	γ:	N	OR			_			_	TOV	/NSI	HP:	CH	AF	R L (	TT	ΓEV				LO.	Γ:	c			С	ONO	CESS	4018	1:	ΙV						YE A		197		_	Ic
	SPR	Total	PS	0	_	-	RD		IC	IAI	1	1	0	_	т-	_	_	_		_	SI	LUR	II A	N							-	4	_	_	VC	INC.	AN	In		Sur	SEOL	GEO	OPE	WELL	COL
1	D UNIT EQUIV	Depth	PRECAMBRIAN	MBRIAN	X VEX	BLACK		TRENTON					CATARACT					AMABEL															RIVER	DETROIT		HAMILTON		PRT. LAMBTON	Drift/	Lake/	GEOLOGICAL CONTACTS:	GEOLOGY BY:	OPER ATOR:	L NAME:	COUNTY: NURFOLK
	AT BASE	Samples 1263	NA		Shadow Lake	Gull River	Kirktield	Verulam	Cobourg	Collingwood	Queenston	Whirlpoot	Monitoulin	Cabot Head	Thorold	Reynales	Irondequoit	Rochester	Gosport	Eramosa	Guelph	A-1 unit		A-2 unit		Sal		_	D unit		G unit	Bass Islands	Amherstburg	Lucas	Dundee	Marcellus	Kettle Point	-	Drift/Lake bottom	Lake/Ground level	ONTACTS:	PETROLEUM	MITCHELL	38	
	95	=			bke		L			d				2			-		0			Carp	anhy	salt	carb	salt	marker	sha/e	sall.	shale	shale	g l	rg				-				) I	-	ັດ	5 NO.45	10
	N M N													1021	1225	1210		1160	1000		942	668			860			810	120	640	621	530	340		255				2		TOP	RESOURCE	ELGIN	45 CHA	WNSHIT:
	BLANC 842	MQC:																																						764	ELEV			CHARLOTTEVILLE	2000
						CORED					Logo	Logo			L	5	8	S							T				+	12				12		SPL	ABA	COM	SPU	CON	THICK. LATI	1.	TOTAL	ILLE 3-9-	١<
				1	2	INTERVAL					NIERV	LOGGING CO.:	-		_	5.50m 15.0m	-	IZE WEIGHT	CASING			980 9	379	INTERVAL				NIC	INTERVAL	46'-1250	1250 1-1253	410-1246	32*-1238	271-1232	INTERVAL	TRAY No :	ED			CONFIDENTIAL:		IE.	DEPTH:	١٧	רסו
PER	OIL GAS PRE					BEC	COF	-			+-		LOGGING	_	_				N A A D	-	_		_	STAT. LEV.	WA				NATIAL	l-	_	•	_		NATURAL	S TO S	26.00	OCT	SEPTEMBER	NOVE	42-44	1541 .	1263* PB:	PERMIT	2
PERFORATED	OIL N GAS PRESSURE 3	H			1000	ANAI CORED INTERVAL	CORING RECORD		_	_	TAPE LOGO		-	_		1218 CEM		AT		_	_	_	_	EV. FLOW	WATER REC			- 11	URA	70	66 MC			36 MC	ATURAL F	GAS RI				- 4	100 N	5: 606 E	PBTD.	T No.	CONC
OPEN	90 SE					DINTERVA	ORD				LOGGED INTERVAL		RECORD			CEMENTED	ENTED	HOW SE	TIBING BECORD					WO	0.00			10:	FLOW	F/0	MCF/D	300	F/0	-	- 1	RECORD.			1977	7			1250*	4571	1 V
OPEN HOLE YES	RESULTS IL 66 MCF/0 90 PSIG 1227*-1250*				110	BEC ANAI		-			HVAL TYPE						1	ET REC	0		1	SULPHUR	FRESH	TYPE				2	API GRAVITY					1 069	S.I. PRESSURE	611	1	7	7	7			4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 +	71	

Т			:ou	NT	Y:	1	101	-	_	_	_		_	то	WN:	SHI	P:	CI	ΗА	R L	0Т			LL	-	_	Γ:	1.1			(	CON	CES	SSIO	N:	_	11			_	_		_	_	_	977	<b>\$</b>	To
	SPRINGVALE	П	Total Depth St	PRECAMBRIAN	CAMBRIAN	X < F	BLAC	RE	NO.		IA	-			CATARACT					AMABEL			SIL	UR	IA	N			_	_						RIVER	_	T	HAMILTON	AN	PRT. LAMBTON	Drift/I	Lake/(	Samples start at	GEOLOGICAL CONTACTS:	2 P	WELL NAME:	100
	AT BASE OF		Samples 1321 #	PZ		Shadow Lake	Gull River	Caraca	Kirkfield	Cobourg	Collingwood	Meaford Dundas	Whiripool	Monitoulin	Cabot Head	Grimsby	Thoroid	Revnales	Rochester	Gasport	Goat Island	Eramosa		A-1 unit carb		A-2 unit salt		8 unit	ic marker	C unit	D unit sall			Bass Islands	Bois Blanc	Amherstburg	Lucas	Dipole	Morroellina	Kettle Point		Drift/Lake bottom	Lake/Ground level	228 ft.	ONTACTS:	NEW METALORE MIN. MITCHELL, ELGIN PETROLEUM RESOURC	META	1
	BOIS BLANC	REMARKS						1					0.10.1	1308	1246	1226	8	2727	1101	1060	963		941	920			880			843	7 4 1	710	000	523	400	326	0.00	202				0			TOP	RESOURCE	AHD BH	***************************************
	, NC		MQC: 7					+	-										-												-												735		ELEV. THICK.		NO.48 CHARLOTTEVILLE	AND THE PROPERTY OF THE PARTY O
				_	_	NIC	CORED INTERVAL REC.	CONDITION		-		ZI	LOGGED INTERVAL					5.501 14.01	+-					490*	•	INTERVAL		1			INTERVAL	2			13171-13211	1240*-1244*	10391-10401		SPL. TRAY No.: 3		COMPLETED: N		P.	LONGITUDE:	LATITUDE:	TOTAL DEPTH: 1321* RIG TYPE: CAB CO-ORDINATES: 952	1-11	101
	51 + 21 51 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	FIN.					4		COBING BECORD				TYPE LOGGED INTERVAL	LOGGING RECORD			000	1230 CEMENTED	SE! A!	AND TUBING RE						STAT. LEV. FLOW	WATER RECORD			MOHS	NATURAL FLOW	ITIAI OII BECORD				47 MCF/D					14,	NOVEMBER 9, 1977	14,	-22-24 W	42-43-26 N	PBTD. 125 ELEV. *S: 350*E	MIT No.:	TT CONC. TT
0.10000000	MCF/D PSIG 1238*-1244*	ESULTS					VAL REC ANAL		-			+	TERVAL TYPE					SHOE	SE 7 KEC	-		_	_	SULPHUR	FRESH	TYPE					API GRAVITY					510 PSIG	O.I. PAROSONE	2	750		77	77	77	SEQ: 1		735*+ 0*	4406	

		_	_	TY:		ΝO	R F	0	LK				_	т	wı	VSH	IP:	CH	I A F	RLO	) T	TE	VII	LLE		L	эт:	1	16			С	ONO	CES	SIC	N:	1)	(						YE A		_	97	-	To	
	D	Total	١,	0	L	0	R	DC	OVI	C	A	٧	1	_	_		_					_	SI	LUI	RI /	AN										_	_	_	_	NIA	AN	l m	П	9	SEO	GEO	DRIL	WELL	COU	ľ
D.S.T. (S) ON	UNIT EQUIV	Depth	ECAMB	AMBRIAN		RIVER	2000		TRENTON						CATARACT					AMABEL																	RIVER	TROPTED		HAMILTON		PRT. LAMBTON	Drift/L	Lake/G	Semples stort of	EOLOGY BY:	DRILLING CO:	WELL NAME:	COUNTY: NORT OLA	
T E	672	Samples 1201			Shadow Lake	Gull River	Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Menford Dundas	Queenston	Midnitouin	Cabot Head	Grimsby	Thoroid	Reynales	Irondequoit	Rochester	Gosport	Eramosa	Guelph	A-1 unit		A-2 unit s			B unit	Conin	unit	un I			Bass Islands	Bois Blanc	Amherstburg	Lucas	Dunden	Marcollina	Kettle Point		Drift/Lake bottom	Lake/Ground level	220	PETROLEUM		CRAVEN	A 17 1	×
	B	2	1		Ke							and a			ľ						-			evap	Carb	SO/I	carb.	anhy.	salt	marker	Sall	caro.	shale	shale	ψ		9	1			L	L			1	1	_ 1	011 00	10	
	UNIT EQUIV	REMARKS	L									9 11 10	1240	2021	1150	1139	1128	1118	2000	1052	1014	200	823	200	782		763		r	720	600	204	490	473	417	360	218						2		107	RESOURCE	ELGIN			TOWNSHIP: CH
	IV 737	W Q C:																																										765	ELEV.			MPANY	LIMIN	CHAD
TARAT	7																																												TRICK.		°n .		150	OTTEV
TOO NOT					NIC	CORED INTERVAL	CONDITION				,	•	LOGGED INTERVAL				_	4.50п 9.5н	100n	SIZE WEIGHT	0.0			000	2000	DOK *				N L	NIERVAL	NTEDVAL		1144 -1150	1139*-1144	1134 1139	1131 - 1134	1129*-1131	INTERVAL	SPL. TRAY No.:	ABANDONED:	COMPLETED:		2	LONGITUDE:		RIG TYPE:		LOT	ı
77 71	77.00	-			_	REC			L				VAL		L						CASING				_	ST				_	1	INITIAL	L	•	-	•	•	-	- 2	46.22	2				80	182	CAB	12611	10	16
PERFORATED	OIL GAS PRESSURE PRODUCING	-	_	_	_	L		CORING F			-	GRAIL	JAPE I	OGING				11231		SET AT	AND TU				4 0 4	VI. LEV.	WATER R				NATURAL FLOW			16				5	NATURAL NATURAL	1				AUGUST	W 75-23-24 W	្រ	ELE	MIT No.:	CONC	
	ואדער נז צ	FINAL R				ANAL CORED INTERVAL	ED	RECORD			9	11201-12591	LOGGED IN	スカウスウスウ				CEMENTED	EMENTE	MOH	TUBING RECORD					FLOW	RECORD				FLOW	T CORD	3	MCF/D	MCF/D	MCF/D	MCF/D	MCF/D	URAL FLOW	NDEX No		11, 1977	22, 19	=	€ 2	3446	- 1		ľ	×
OPEN HOLE YES	MCF/D PSIG 1123*-1150*	RESULTS		_		REC.							INTERVAL					<u> </u>		4	080			0.000	SIN DHIR	HSEGH					AFIGR	7		530 P					2	762		77	1977		SEQ:		7651+ 21	0.0	2	
YES	1150	-				CANAL					1	DE N	TYPE							REC.				2	E S	I					AFI GRAVIII	24111		PSIG					SSURF						-		-			

1		_	:00	NT.	r: T	- 1	10 F	-	-	_			_	1	OV	WNS	SHII	P: —	СН	ΑF	L (	) T	TE	۷I	LL	E	L	T:	1	7			-	CON	ICE:	SSI	ON:	V	11	1	_	_		_	_	AF	-	19	_	_	To
	0		ota	١	2		01	RE	_	/10	T	AN	_	_	c	)	_	_	_	_	_	_	Т	SI	LU	RI.	AN		_	_	_		_	_		_	H	_	-	VC	NI	AN		,		omp	EOL	EOL	ORIL.	WELL	Ì
	UNIT EQUIV		Total Depth Sc	PRECAMBRIAN	A M B R I A N	RIVER	BLACK		KENTON						CATARACT						AMABEL																	RIVER	DETROIT		HAMILTON		PKI. LAMBION	Oritt/L	Lake/C	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	DRILLING CO:	NAME:	
	IV 680		Samples 1270 ft.	2		Shadow Lake	Gull River		Veruidm	Cobourg	Commigwood	Meaford Dundas	Queenston	Whirlpool	Manitoulin	Cabot Head	Grimsby	Thorold	Revnales	ronde quoit	Bochester	Good Island	Eramosa	Guelph	A-I UNIT evap.	carb	A-2 unit sall			B unit salt			Dunit soll	F unit cash			Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus	Zama Tom	-	ake bottom	Lake/Ground level	210 ft			MITCHELL, E	CHAVEN CHAP	
		REMARKS											1148		1240	1190	1162	1140	1131	100	1066	000	O n	944				776			732	697	230	200	284	914	359	326		208				C			TOP	RESOURCE	ELGIN	COL TEN	WINDLINE.
		S	MQC: 7					-													-											-									-				771		ELEV. THICK	m	•	EN CHARLOTTEVILLE STITEVILL	2000
PERFORATED OPEN HOLEYES	OIL NIL GAS 21 MCF/D PRESSURE 540 PSIG PRODUCING INTVL. 1140*-1161*	FINAL RESULTS					CONDITION STORED INTERVAL BEC ANAL	CONDITION CONTROL SECOND	COBING BECOM			1*-1268* GRNL 1130*-1266* DENL	L TYPE L	CO: GREAT GUNS	LOGGING RECORD	-			4.50H 9.5# 1140 CEMENTED	20.0# 270 CEMENTE	WEIGHT SET AT HOW SET	2				550°- 590°	AL STAT. LEV. FLOW	WATER RECORD					INTERVAL NATURAL FLOW API GRAVITY	NITIAL OIL BETOOD				1142*-1146* 16 MCF/D	.69 MCF/D	INTERVAL NATURAL FLOW S.I. PRESSURE	L GAS RECORD	TRAY NO. 3647	AUGUS! II.	JULY 14,	HAL: SEPTEMBER	80-22-41 W	LATITUDE: 42-48-0	ORDINATES: 1507 N: 506 W	YPE:	PERMIT No.: 4	TOT: IT CONC. VILL

	0	_	TINE	T	_	O F		_	-	CI.	Δ P		Т	-	ow	ICP	161	-	Сп	Ar		) [		-	_	RIA	L D		_	_	19	-	_	COI	VCE	.55	T	-	DE					7		YEA	_	<u>a [c</u>	_	0		O
	UNIT EQUIV	Total Depth Samples		CAMBRIAN	RIVER	8	T	1201014							CATARACT						AMABEL			31	LO			_		_			_	_		T	1	7.467	DETROIT		THE PERSON NAMED IN	_		PRT. LAMBTON	Drift/	Lake/	Complete store of	GEOLOGY BY: PETRO	DRILLING CO :			COUNTY: NOK
	620 B	amples 1220 ft	IAN	CHARGOS CANE	Charles Tiver	Coboconk	Kirktieid	Vistalian.	Vocalor	Cohour	Collingwood	Manford Distance	010000000000000000000000000000000000000	Whirlippol	Monitor Field	Grimsby	Inoroid	Reyndles	Irondequoit	Rochester	Gasport	Goat Island	Eramosa	Guelph	A-1 unit evop	Carh	A-2 unit sall		S anny	B unit salt		C unit	D unit salt		F unit shale		Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus		Kettle Point	Z	Drift/Lake bottom	- 1	210 4	ONTACTS:		CRAVEN	CHAV	NORFOLK
	UNIT EQUIV											8 000	1000	1100	1170	COTT	460T	7601	1087	1028		978	Ī	783		260		705		Ī		639	0	537	T	4/0	220	282	0	180					2		1	RESOURCE	ELGIN	COMPANY	CHARLOTTEVILLE	OWNSHIP:
	V 675	MQC: 7					-	-		+	-	1	-		+																															760	CCC 4 11	100		~	ILLE 4-19-X	D
SSURE DUCING INTVL.	OIL NIL			21-	CORED INTERVAL REC. ANAL CORED INTERVAL REC. ANAL	ON STORED	COR			_	T   Gwale   1038   DENE		LOGGED INTERVAL TYPE LOGGED INTERVAL TYPE	20.				1094	7.00H 20.0H 210 CEMENTED	WEIGHT SET AT	CASING AND TUBING RE					FRESH	STAT. LEV. FLOW						NATURAL	NITIAL OIL RECORD		_	_		MCF/O	NAT	INITIAL GAS RECORD	SPL. TRAY No.: 2284 INDEX No. 759	001111	JUNE 28.	SPUDDED: JUNE 9, 1977	AL: JULY 28.	10103100 W	CO-ORDINATES: 420 N: 510 E		PBID.	PERMIT No.:	TEVILLE LOT: 19 CONC: X

MENT TO SECOND TO THE CONTROL OF THE	_		_	_	JNT	γ:	١	10 F	RF	0 L	K			_	Т	ow	NSH	IP:	СН	AR	LC	тт	Eν	/ I L	LE		L01	:	2	0		С	ONO	ES	SIOI	N:	_	ΙX				_	Y	EA	_	197		- 10
N CHRRIOTE VILLE 1-20-IX  N CHRRIOTES CHARLOT EVALUE FERMIT No.: 14  N OIL COMPANY  TOP ELEV THICK LATITUDE: \$42-936 N  LONGTUDE: \$42-9					PRECAMBRI	CAMBRIAN	Z < E	_	T			IA	2			CATARACT					AMABEL			SIL	UR	1 A	N		_			_						_		_		CΙ	Drift/I	samples start at	EOLOGICAL CO	SEOLOGY BY:		
TUE 1-20-IX   FORM RECORD   INTERVAL   STATE RECORD   INTERVAL   TYPE   LOGGED INTERVAL   TYPE   LOGGED INTERVAL   TYPE   LOGGED INTERVAL   STARED   INTERVAL   RECORD   INTERVAL			588	8 8			Shadow Lake	Gull River	71771010	Verulam	Cobourg	Collingwood	Meaford Dundas	Queenston	Whirlpool	Manifoldia	Grimsby	Thoroid	Reynales	Irondequoit	Rochester	Goat Island	Eramosa	Guelph		anhy	unit		B unit			unit	unit	G unit shale	Bass Islands	Bois Blanc	Amherechura	Dundee	Marcellus		1 1		Lake bottom	0	00	PETROLEUM	CRAVEN	CHAV
LOS!  DEPTH: 126* PERMIT No. 14  YPE: CAB ELEV. 17  DIDINATES: 542*5; 442*M  TUDE: 100* PO-2=15 W  TRAY No: 2324 INDEX N.  INITIAL GAS RECORD  104*-1100* INTERVAL INTUAL OIL RECORD  104*-1106* TO MCF/D  03*-1106* NILEV FLOW  NIL  WEIGHT SET AT HOW  004*-1226* GRAL TORRE  ED INTERVAL TYPE LOGGED INTERVAL TORRE  D INTERVAL TYPE LOGGED INTERVAL TORRE  NIL  CORING RECORD  D INTERVAL TYPE LOGGED INTERVAL TORRE  NIL  CORING RECORD  D INTERVAL TYPE LOGGED INTERVAL TORRE  NIL  CORENG RECORD  D INTERVAL TYPE LOGGED I			12	M	Ī									1197	1187	140	1100	1081	1074	*0*0	1015	967		730	114			668			605	400	411	395	345	182	175						1		-	lm -	COMPANY	DI VILLENAMO
	PERFORATED OPEN HOLEYES	GAS 70.56 PRESSURE 530 PRODUCING INTVL.	2	9C: 7				REC	ı				*-1226 GRNL	INTERVAL TYPE LOGGED	CO. GREAT GUNS	-			9.5# 1078*	SO-OH SIN CEMENTED	WEIGHT SET A							WATER RECORD			3	INITIAL OIL				70	17	NATURA	INITIAL GAS	: 2324	1	JULY 27	SPUDDED: AUGUST 27.	CONSIDERTIAL AUGUST 37	THICK. LATITUDE:	CO-ORDINATES: 543*5: 442*W	TOTAL DEPTH: 1226' RBID. 111	COT. 20 CONC. 4A

	200	SPRINGVALE AT	Total Depth	PRECAMBRIAN	CAMBRIA	RIVER	BLACK	D	O TRENTON	ıc	IA	N			CATARACT		T				AMABEL			SI	LU	RI.	AN											T	DETROIT	Т	_	HAMILTON	_	PRT. LAMBTON	Drift.	Lake	Samples start at	GEOLOGICAL CONTACTS:	DRILLING CO :	WELL NAME:	Пě
	CE WENT	BASE OF	Samples 1303 ft.	RIAN	2	Shodow loke	Coboconk	Kirkfield	_	Cobourg	Collingwood	Meaford Dundas	Queenston	Whirlpool		Cabot Head	Grimehy	Thornida	Tongaguoir	Rochester	Gasport	Goat Island	Eramosa	Guelph	A-1 unit evap	Carb	A-2 unit salt		on anny	a B unit salt	_	unit		F unit cach			Bois Blanc	Amherstburg	Lucas	Dundee	H	_	Kettle Point	NO	Drift/Lake bottom	Ground level	224 #		MITCHELL, PETROLEUM	TALORE I	
	r G	BOIS BLAN	MQC										1309	1291	1277	1000	1100	1100	27/2	1114				904		ARK		800	847			770		680	n u	284	154	330	298	224					2	727	-	TOP ELEV	RESOURCE	CHAR	Ė
	ט אַפּיר רָתָּיע			1	1	CORED INTERVAL	CONDITION					800*-1310*	- 1	LOGGING CO.:				2000	8.000	╀				718*	730 *	6171	INTERVAL					2	INTERVAL				1307*	1302	1195*-1196	IE I		SPL. TRAY No.:	ABANDONED:	COMPLETED:	SPUDDED:	CONFIDENTIAL:		THICK	RIG TYPE:	CHARLOTTEVILLE 7-21-111	
PERFORATED OPEN HOLE YFS	PRESSURE PRODUCING INTVL.	FINA				AL REC. ANAL CORED INTERVAL REC		CORING RECORD				10' GRNL 1180'-1310' DENL	INTERVAL TYPE LOGGED INTERVAL	ON IS	Degine PECORD			ILDE" PACKER	_	+	G AND TUBING RECORD				SUI PHUR	מו מו מו מו מו מו מו מו מו מו מו מו מו מ	STAT. LEV. FLOW TYPE	R					NA.	2			0.9 MCF/D			NATURAL FLOW		3302 INDEX	JANUARY 25.	4.4	SEPTEMBER 23.	DECEMBER 4, 1977	80-18-38 W SEQ:	42-45-	1310 RBID 820 CAB ELEV. 727*+ 2*	PERMIT No.:	21 CONC: III

_		COU	NT	Y:	٨	0 R		-	_			_	ТО	MNS	HIF	>: 	CH	IAI	R L (	ТТ	-		LLI	_	.ОТ	r: 	2 1			(	ON	CES	SSIC	N:	_	/ 1	_				1		_	_	97		_	- [
	POOR	ota	9	0		01	RD T	_	10	IAP	1	╀	_		_	_	_	_		_	5	IL.	UR	IAI	4							_		_	_	-	/ O	NI.	AN	170			Samp	3EO(	3EO	282	WELL	
	DR AGREEMENT	Total Depth Samples	PRECAMBRIAN	CAMBRIAN	RIVER	BLACK		TRENTON					3						AMABEL																RIVER	DETROIT		HAMILTON		PRT. LAMBTON	Drift/L	Lake/G	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	DRI ING CO.	L NAME:	
	1	mples 1250	Z		Shadow Lake	Coboconk	Kirkfleid	Verulam	Cobourg	Collingwood	Manford Dund	Whirlpool	Manitoulin	Cabot Head	Grimsby	Thorold	Reyngles	Rochester	Gasport	Goat Island	Eramosa	Guelph	A-1 unit carb		1/02 min C-0/		8 unit	1		Dunit sall			Bass Islands	Bois Blanc	Amherstburg	T HOOSE		Marcellus	Kettle Point		Drift/Lake bottom	Lake/Ground level	200	NTACTS:	PETROLEUM	MITCHELL.		AVEN
	REMARKS BETWEEN LOG AND	11.								9	1240	1234	1228	1164	1152	1100	1115	1056	960	924	0.1	242	10 824	onhy.		carb 772	1/4	7	shale 712	+	510	t	420	382	302	200	200				2		#	•		ų ľ	TANCOL ICAT	CHARLOTTEVILLE
	AND SAMPLES	MQC: 7			1	-					1										1	1				+							Ī			1	1					773		ELEV. THICK.	ř	4		TILE 2-21-VII
PERFORATED OPEN HOLEYES	OIL NIL MESULTS OIL SAI MCF/D GAS 81 MCF/D PRESSURE 460 PSIG PRODUCING INTVL 1120*-1255*					STORED INTERNAL BEC	COR				TOGGED IN ENAME	CO.: GREAT GUNS	LOGGING RECORD			NOON TAKE	7.00# 20.0# 235° CEMENTED	WEIGHT SET AT	CASING AND TUBING RECORD						INTERVAL STAT LEV SECOND	WATER RECORD				INTERVAL NATURAL FLOW API GRAVITY				_	201120110	7	2	SPL. TRAY No.: 0390 INDEX No. 803	4	DECEMBER 23,	DECEMBER 7.	AL: JANUARY 23, 1978	LONGITUDE: 80-21-10	LATITUDE: 42-48-	CO-ORDINATES: 479*S: 55*E	AL DEPTH: 1000' RBID.	PERMIT	DEDOCT VAL

	90	Total	_	0		0	R	00	VI	CI	AN									_		SI	LU	RI	AN		_	_					T		DE	vc	NI	AN		Τ		Son	GEO	DRI	WELL	COL
D.S.T (S) ON	D UNIT EQUIV	Depth	PRECAMBRIAN	CAMBRIAN	7	BLACK			TRENTON					CATARACT	Ī				AMABEL	)														ZI V FIZ	DETROIT		HAMILTON		PRT. LAMBTON	Drift/L	Lake/G	Samples start of	GEOLOGY BY:	DRILLING CO:	LL NAME:	COUNTY: NORFOLK
T T	BETWEEN	Samples 1217 ft			Shadow Lake	Gull River	Coboconk	Kirkfield	Verulam	Cohourn	Meatord Dundas	Queenston	Whiripool	Manitoutin	Cabot Head	Cimph	Reynales	Irondequoit	Rochester	Gasport	Goat Island	Guelph	A l unit evap		A-Z UNIT SOTT		B unit salt	1			F unit shale	G unit shale	Bass Islands	Amherstburg	Lucas	Dundee	Marcellus	Kettle Point	-	Drift/Lake bottom	1 1	190 ft	LEUM	֓֡֓֜֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֓֓֓֓֡֓֓֡֓֡֓	AVEN	
		DT M D D X D										1202		1193	1137	CHUT	1078		1018			784		767		720	1	672	527	526	453	437	387	246		199				<b>⊢</b>		-	RESOURCE	ELGIN	CHARLOTTEVILLE	TOWNSHIP: CH
	AND SAMPLES	MQC:																																							762	ELEV	E	1		CHAR
	Salo	7																																								1000		יה ת	3-21-VIII	CHARLOTTEVILLE
						FRVAL	CONDITION				1-1220	LOGGED INTERVAL	3 CO.:					7.00m 20.0m	SIZE WEIG	CASING				9	NIO PRVAL	NATE OF A		עַרַר	NIERVAL	N-T-F-DVA-			*0.00	10021-1090	1087*-1091	INTERVAL	SPL. TRAY No :	ABANDONED:	COMPLETED:	SPUDDED:	IAL:	LONGITUDE	ORDINATES:	RIG TYPE:		ILLE LOT:
PERFORATED	OIL GAS PRESSURE PRODUCING IN	7				REC. ANAL COR	STORED	CORING RECORD	_	_	GMNL	L TYPE	AT GUNS	LOGGING RE			1086*	223 •	SET A	AND					SIAI. LEV.	WATER REC		_	NATURAL	INITIAL OIL RI			b (	CTT	14		INITIAL GAS R		JULY		-4	80-21-28 W	5,6	ROT ELEV.	ATT No.:	21 CONC:
OPEN HOLE YES	13 MCF/D 13 MCF/D 590 PSIG 590 PSIG					ANAL CORED INTERVAL REC.	-	CORD			1080*-1218*	LOGGED INTERVAL		RECORD			CEMENTED	MENTED	HOW SET	TUBING RECORD					LOW LANE	RECORD			FLOW API GRAVITY	RECORD				MCT/U	_	FLOW S.I. PRESSURE	GAS RECORD	7	5, 1977	16, 1977	1977	SEO:		762*+ 1	4511	VIII

		CC	UN.	TY:	1	N O F	RF	0 L	K		_	_	то	WN	SHI	P:	С	HA	RI	-01	TI	EV I	LL	Ε.	LC	T:	2	2			CON	ICE:	SSIC	N:	١	/ 1 1			_	_	Υ	EA		19		_
	POOR	010	,	0	_	01	RD	_	_	IAI	1	L		_	_		_					SIL	LUI	R1 /	A N									Ļ	D	EV	_	AIN				Som	GEO	GEO	OPE	WELL ?
DST (S) ON FILE	OR AGREEMENT	Total Depth So	PRECAMBRIAN	CAMBRIAN	214	BLACK		TRENTON						CATABACT					AMABEL																RIVER	DETECHT		HAMILTON		PRT. LAMBTON	Drift/L	Samples start at	GEOLOGICAL CONTACTS	GEOLOGY BY:	2 0	L NAME: CH
	MENT BETWEEN	Samples *coo II			Shadow Lake	Gull River	ZITATIGIO	Veruiom	Cobourg	Collingwood	Median Dina	Whirlpool	Manitoulin	Cabot Head	Grimaby	Thoroid	Reynales	irondequoit	Rochester	Goat Island	Eramosa		A-1 unit evap	anny	A-2 unit sall	carb		in marker	C unit	D unit sall		F unit shale	Islan	Bois Blanc	Amherstburg	Dundee	Marcellus		Kettle Point		Drift / Lake bottom	Count level	) )	LEUM	CRAVEN OIL	VEN-UNI
	LOG AND	REMARKS									0477	1237	1231	1164	1149	1129	1116	000	1056			802		703		730		107	658		560	480	410	370	310	502	n n				N		TOP	RESOURCE	COMPANY	ION CHARL
	10 SAMPLES	S = 40.				-	-																									-									101	781	ELEV T		~	OTTEVIL
	ES				NIC	CORED INTERVAL	2010			<u> </u>	בטטטבט וה	LOGGING CC					4-508	7.00#	3712					260	INTERVAL				NIL	INTERVAL			L		******	11070-11070		SPL. TRAY No.:	ABANDONED:	COMPLETED:	SPUDDED:	CONFIDENTIAL	THICK. LATITUDE:	10.7	707/	4-22-VI
PERFORATED	GAS PRESSURE	_				REC.	CORING	COBIN			יותר ביינים ביינים ביינים ביינים	LOGGING CO.: GREAT GUNS	LOGGING				9.54 1118	-	WEIGHT SET AT	200					VAL STAT. ILEV.						INITIAL				1751	+	INIT	236		D: NOVEMBER		a		2832 N:	1265*	PERMIT No.
ATED OPEN HOLEYES	OIL  GAS  PRESSURE  PRODUCING INTVL. 1118*-1265*	FINAL RESULTS				ANAL CORED INTERVAL REC	CORING MECOND	90000			TOUGH INTERVAL	S	RECORD			_	_	CEMENTE	HOW SET	TENNO DECORD					FLOW TYPE	WATER RECORD				NATURAL FLOW API GRAVITY	L RECORD				1 Licela	RAL FLOW S.I. PRESSURE	AL GAS RECORD	INDEX No. 801		R 30, 1977	000	D &	z	363°W	T.D. 781	4591

_		COL	TAL	Y:	1	101	_	_	-	-			Т	TO	WN:	SHI	P:	С	ΗA	RL	0	TT	_	IL	_	_	LOT	-	22	2			СО	NCI	ESS	SIOI	W:		1 1						YE A			19	_		: [2	0
D.S.T. (S) ON FILE	D UNIT EGUIV	Total Depth Sa	PRECAMBRIAN	CAMBRIAN	X < r	_	Т		TBENTON		- N			3	CATABACT					AMABEL		T	S	LL	RI	IA	N						_	_			200	DETROIT		_	HAMILTON	_	PRT. LAMBTON	Drift/	Lake /	amples stort of	GEOLOGICAL CONTACTS	GEOLOGY BY:	O 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	WELL NAME	0014	COUNTY: NORFOLK
FILE	V 676 B	les 1249	AN		Shadow Lake	Gull River	Corner	Kirkfield	Version	Company	Meaford Dundas	Queenston	Whirlpool	Manitoulin	Cabot Head	Grimsby	Thorold	Reynoles	Too de cució	Rochester	Goe or a cond	Eramosa	Guelph	ечар	A-1 wit carb		A-2 unit salt		a Bunit salt	=	C unit	unit			G unit shale	Bass Islands	Amnerstourg	Lucas	Dundee	Marcellus		Kettle Point	2	Drift/Lake bottom		210 #		PETROI FUM	WITCHELL .	CHAVEN	VACO	
	UNIT EQUIV WIARTON											1241	1237	1230	1170	1130	1125	1116	1000	2022	0.76	201	850		820		101	176		713	694		596	864	404	17.7	77.0	275	218					2		-	TOP	RESOURCE	FI GIN	OND A	ON NOTIN	WNSHIP:
	IV 730	MQC: 7					-			-								1	-	-		-																							774	-	F  F\	ń		C C C C C C C	TOWNSHIP: CHARLEST	CHARL
TREATMENT: PERFORATED OPEN HOLE YES	OIL VIL  GAS 3.5 MCF/D  PRODUCING INTVL. 1131*-1260*				NII NEC AWAL CORED WIERVAL REC AWAL	SIORED	CONING ARCORD				1'-1260' GRNL 1128'-1258' DENL	LOGGED INTERVAL TYPE LOGGED INTERVAL TYPE		LOGGING RECORD			TCTI	200	WEIGHT SET AT	CASING AND TUBING RECORD						-	WATER RECORD					INTERVAL NATURAL FLOW API GRAVITY	INITIAL OIL RECORD		_	_			NATURA	INITIAL GAS RECORD	SPL. TRAY No.: 2356 INDEX No. 769		ED:	JULY 6,	CONFIDENTIAL: AUGUST 30. 1977	N 10-84-74	ATITIDE: 42-48-	RIG TYPE: CAD BLEV. //4*+ 2*	1250 PB.T.D.	PERMIT	LOT: 22 CONC: VII	EVILLE LOT 22 CONC.

1			NTY	·	N O	-	_	_	_		_	TC	1W0	ISH	IP:		C H	IAI	R L	0 T		_	LL		_	T:	22	_	_	_	CO	NC	ESS	ION	_	1)		_			Т	YE	_	_	19		21	Ic
	GOAT POOR	Ot a		<u>.</u>	_	т	-		A	N	╀	_	0		_	_	_	_	_	_		SIL	U R	A 15	N			_	_				_	+	-	DE	V			-			Samp	EOL	SEOI	OPE	WELL	NOUS.
	IT E ISL AGR	Total Depth Sa	PRECAMBRIAN		BLACK		KENTON						CATARACT						AMABEL																RIVER	DETROIT		HAMILTON		TAIL LAMOTON	Dritt/ L	Lake/Ground	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:		ZAME:	COUNTY: NORFOLK
	S25 B UN UALS WIA BETWEEN	08 1177 ft	Z	Shadow Lake	Gull River	Coboook	Kirkfield	Cobourg	Collingwood	Meaford Dundas	Whiripool	Monitouin	Cabot Head	Grimsby	Thoroid	Reynales	irondequoit	Rochester	Gasport	Goat Island	Eramosa		A-1 unit caro.	anhy.	A-2 unit salt		Sa B unit Sair		C unit	unit	E unit carb		G unit shale	Boss Blanc	Amherstburg	Lucas	Dundee	Marcellus	7000	Katela Daint	Drift/ Lake bottom	round level	150 ft.		PETROLEUM R		A	
	WIARTON EEN LOG AND									7077	3	7571	1075	1056	1045	1042	1037	978	446	833		680	400	200		602		562	542		444	353	338	201	211		156				1-			TOP	RESOURCE	OIL COMPANY	CHARLOTTEVILLE	WNSHIP
	S SAMPLES	MQC:		L														L	L					-										1								727		ELEV	14	~	ILLE 3-	CHACL
	DE CEW						1																			1																		THICK. L	Q 20	70	3-22-IX	TABLIO
	970			NIL	CORED INTERVAL	MOLITION				19-11789	LOGGED INTERVAL			_	_	_	7.00m 20.0H	1					8324		INTERVAL				NIL	INTERVAL						1055*-1064*	INTERVAL	1	SPI TRAY NO.	COMPLE EC.	SPUDDED:	IAL:			CO-ORDINATES: 1	TOTAL DEPTH: 11		CLE LOT: 22
PERFORATED	OIL GAS PRESSURE PRODUCING				REC. ANAL CO	STORED	CORING	_		2 -	GUNS	BNIBE	4			1041	1771	SET AT	100				- Annie		STAT. LEV.	WATER RECORD				TURA	INITIAL OIL					7			2421		AUCT		0-21-25	N 84-64-24	1507°S: 550	•	ERMIT No.	22 CONC: IX
PERFORATED OPEN HOLEYES	NIL 65 MCF/D 590 PSIG 1041*-1069*				ANAL CORED INTERVAL	ED COL	ECORD		1	1040 -1176	OCCED INTERVA	RECORD				CEMENTED	EMENTED	HOW SET					SA	SULPHUR		ECORD				FLOW API GRAVITY	RECORD					MCF/D	L FLOW S.I.	GAS RECORD	INDEX NO 777		21, 1977	19, 1977		2	V. 727*+	106	4523	

		cou	INT	Y:	١	1 O F	۱F	0 L	K				_	TO	WNS	SHII	>;	Cŀ	IAI	RLI	) T	T E	VΙ	LLE	E	LO.	r:		2 4			co	NCE	SS	ION	: v	1						YE	AR:	1 !	977	7		_
	POOR	Total	ס	c		0	RI	_	_	CI	AN		L	_		_		_		_	_		SIL	U FI	ΙĀ	N	_	_	_	_					1		DE	v	_	AN	_			Sam	GEO	GEO	OPE	WEL	COU
D.S.T.(S) ON	AGR	Depth	PRECAMBRIAN	AMBRIAN	7	BLACK			TRENTON					CALANACI						AMABEL																RIVER	DETROIT		HAMILTON		PRI. LAMBION	Drift/L	Lake/C	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	OPER ATOR:	WELL NAME:	COUNTY: NORFOLK
		Samples 1260 ft	AN		Shadow Lake	Gull River	Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Queenston	Whirlpool	Manitoulin	Cabot Head	Grimsby	Thoroid	Pompagaon	Rochester	Gasport	Goat Island	Eramosa	Guelph	A-1 unit	0	A-2 unit s		0	_	C unit			unit	Gunit sons	Bos Bigne	Amherstburg	Lucas	Dundee	Marcellus	Zerrie Toini	-	ake bottom	Lake/Ground level	205	NTACTS:	BETROL FUM	CRAVEN OIL	AV	
	BETWEEN				K e			1	1		SDD		L		۵	1		1		L	۵		1	carb	anhy	sall	carb	anhy	marker	shale	50/1	arb.	shale	shale		ľ				1	1	L		رى ت	- 1		3 '	CHAR	TO
	LOG AND											9221	1220	1213	1150	1134	1110	1000	TUSE	960			822	802			754		217	689		571	492	470	2/5	300		204				2			TOP	BESOLEOU BESOLED	COMPANY	CHARLOTTEVILLE	TOWNSHIP: CHARLOTTEVILLE
	AND SAMPLES	MQC:																																									746		ELEV	*1	~	ILLE 3	CHAR
	SES	7																																											THICK.			3-24-VI	LOTTEV
					NIL	CORED INTERVAL	CONDITION				1.00711	LOGGED INTERVAL	3 CO.:					100 H 20	+						217*	INTERVAL				NIL	INTERVAL						1126*-1130*	INTERVAL		ADANCONEC:	COMPLETED:	SPUDDED:	CONFIDENTIAL:	LONGITUDE:	LATITUDE:	CO-ORDINATES	AL DEPTH:		
PERFORATED	PRODUCING INTVL					REC.	STORED	CORING			O GHNC	T TYPE	AT GUNS	LOGGING			1.00.	20.00 241	SET A	AND						STAT. LEV.	WATER				NATURAL	INITIAL OIL	_					Ц	IN S	7777	DECEMBER	NOVEMBER	JANUARY	80-19-11	42-47-59	CABORCS A	•	PERMIT No.	LOT: 24 CONC: VI
	0 T R					ANAL CORED INTERVAL	FO	RECORD			14421-450TT	15		RECORD			てきてスポス	CEMENTED	NOH SI	TUBING RECORD						FLOW	RECORD		_		TURAL FLOW	RECORD					MCF/D	NATURAL FLOW	S RECORD	200	6	-	60	₩ .	Z	ELEV. /4		4598	١٧
OPEN HOLE YES	RESULTS  O MCF/D  1105*-1250*			_		AL REC ANAL					SA44 DENE	+-							ET REC.						FRESH	TYPE					API GRAVITY							S.I. PRESSURE	004	200	7	7	8	SEQ: 1		1464+ 24		98	

		COUN.	TY:		0 R	-	_				_	то	WNS	HIF	P:	но	UG	нт	10					то.	:	1	_		(	CON	ICES	SSIC	N:	1	_				_	Y	EA		_	97	_	: 14
	D UNIT EQUIV	Total Depth Samp	CAMBRIAN	RIVER		DO	TRENTON	CI	AN		-	1				T	000	AMARE	T	S		JRI	AP	<u> </u>		_	_		_		_			RIVER	_	-	HAMILTON		PRT. LAMBTON	Drift/I	John I ake /	EOLOGICAL CO	EOLOGY BY:	DRILLING CO:	WELL NAME:	ш
	AT BAS	Samples 1447 ft		Shadow Lake	Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Queenston	Whirlpoo!	Monitoulin	Cabot Head	Grimeho	Thorold	Irondequoit	Rochester	Gasport	Goat Island	Eramosa	ечар	A-1 unit corb	-	carb.		a B unit salt		Curit	D unit sall		_	Bass Islands	Bois Blanc	Amherstburg	Lucas	Dinde	Maria	Kettle Point		Drift/Lake bottom		ONTACTS:	GEOLOGY BY: PLTROLEUM RESOURCE	ROSE, MURRAY	HTML OCK	≦
	B UNIT EQUIV 1	MQC											1447	1404	1409		1343	1291	1215	ROLL		1086	1081	1000	10 45			946	020	200	750	642	527	466	E 000	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	1/02		Ī	(si	7 7 7	TOP ELEV		AY	EXPL. ITD.	OCK NO.4 HOUGHTON 2-1-1
	1016 C			VIII NECVAL REC	CONDITION				715	LOGGED INTERVAL	147				4.500 24.00	10.75m 40.5#	1	CASING			1135*	530 *	1	INTERVAL				- 1	INTERVAL					1410	1		SPL. TRAY No :		COMPLETED:		CONFIDENTIAL	THICK. LATITUDE:	CO-ORDINATES:	RIG TYPE: CAB		
DEBEOBATED OPEN HOLEVES	OIL NIL SHOW PRESSURE 560 PSIG PRODUCING INTVL. 1415*-1418*	3		CORED INIERWAL REC	STORED	CORING RECORD				LOGGED INTERVAL	1	LOGGING RECORD		1.00.	-	304 9	-	AND TUBING RE			_	90° SULPHUP	MOHS	WATER RECORD					NATURAL FLOW   API GRAVITY	05000				6 MCF/D	10 MCE /D	2	2667 INDEX No. 770		27,	15,	٦,		9°5: 631°W	18 ELEV. 647*+ 3*	PERMIT No.: \$471	

Т		_	_	ראט	Y:		N C		-	-			AN	_	Т	ТО	WN	SHI	P:	Н	01	JGF	HT (	N	61	LUI		LO	T:	2			_	co	NCI	ESS	T	_		11	- N	IIA		Т	YE	E AF	_	197	_	= 19
		O UNIT EQUIV	Total Depth Sc	PRECAMBRIAN	CAMBRIAN		RIVER	_		TRENTON							CATARACT					AMABEL			31		-											Т	DETROIT	Т	3			PRT LAMBTON	Lake/C	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	OPER ATOR:	COOK TO A STATE OF THE
		940 DE	Samples 1445 ft	N		Shadow Lake		Coboconk	Kirkfield	Verulam	Cobourg	Company	Meatora Dundas	Queenston	Whirlpool	Monitoulin	Cabot Head	Grimsby	Thorold	Reynales	Irondequoit	Rochester	Goat Island	Eramosa	Guelph	A-1 unit evap	anny	A-2 unit sall		Sa	D	C unit			F unit shale	G unit shale	Boss Islands	Amheretburg	Lucas	Dundee	Marcellus		Kettle Point	MBTON LONG DOTTOTT	Lake/Ground level	₩ 0.62		PETROLEU		4
		CEW									+	+						1438	1413	1408		CTE	1254		1110	***	1061		1010		27	955	T	Н	740	t	8.50	4/1	414	335	289	Ī		2	0	170	TOP	M RESOURCE		NO. 3 HOUGHTON
		1304	MQC: 7															I																		1								1	808		ELEV THICK			OCK NO.3 HOUGHTON 2-2-TT
						Zir	RVAL	CONDITION					. Ohhl-, ORIT	LOGGED INTERVAL	LOGGING CO.: GREAT					7.00H 20.0H	+	SIZE WEIGHT	Constitution			580	136	RVAL				1428*	ERVAL	Н		1	1430.	1430	1428*	RVAL		-	ABANDONED:	COMPLETED:	IAL:	1	LATITUDE:	CO-ORDINATES: 38	TOTAL DEPTH:	
PERFORATED OF	SSURE 690	OIL NIL					REC. ANAL CORED INTERVAL	STORED	CORING RECORD				GXZC	THE LOGGED INTERVAL	GUNS	LOGGING RECORD				340 PARFEO	Soge CACTAG	SET AT LOUING ME		_			_	STAT. LEV. FLOW	WATER RECORD			MOHS	NATURAL FLOW	INITIAL OIL RECORD			40 MCF/U		96 MCF/D	NATURAL FLOW	AL GAS	2757 INDEX No.	9	MARCH 11, 1977	L 11,	¥	z	315: 5051M	PB.T.D.	CONC. ***
OPEN HOLE	MCF/D PSIG 1428*-1436*	SULTS					RVAL REC ANAL							ERVAL	1					3404	מביי	4				SULPHUR	FRESH	TYPE					API GRAVITY				915d 369			S.I. PRESSURE		749		77	77	SEQ: 1		658*+ 2*		1747

_		COL	INT	Y:	N	0 R	F0	LK			_	Т	OW	NSI	IIP:	:	+	101	JG	нт	0 N				LOT	T:		4	_		СО	NC	ESSI	ON	:	1	1				_	Y	EA		_	977	_
	SPR	Total	P	2	_	_	E	VI.	CIV	N.		_	0	_	Т	_	_		_	_	-	SIL.	UR	IA	N		_		_	_			1	╀	_		I V	ON	- 1				Samp	GEOL	GEOL	OPER	WELL
	D UNIT EQUIV	Depth	PRECAMBRIAN	AMBRIAN	RIVER	BLACK		TRENTON					CATARACT					0	AMARFI																RIVER	DETROIT		TAMICION			PRT LAMBTON	Drift / I	Samples start at	OGICAL CC	GEOLOGY BY:	2 D	WELL NAME: J.
	944 B UN	es 1485 ft	AN		Shodow Loke	Coboconk	Kirkfield	Verulam	Collingwood	Meaford-Dundas	Queenston	Whirlpool	Manitoulin	Comsoy	Thorold	Reynales	Irondequoit	Rochester	Gasport	Goat Island	Eramosa	Guelph	A-1 unit carb		A-2 unit salt	carb.	Salanny	0	C unit	unit		unit	G unit shale	Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus		Kettle Point	000000	Drift / Lake bottom	OTO II	GEOLOGICAL CONTACTS:	PETROLEUM RESOURCE	ROSE MURRAY	
	SIS												4/47	CHAT	1454	1425	1417	1352	1283	1197		1108	1097	1094		1035			960		847	765	774	2009	440	a	244	310			-	v		TOP	RESOURC	FARMS	HOUGHTO
	BLANC	MQC:		1																													1									1	474	ELEV.			NO.1 HOUGHTON 6-4-11
					CORED INTERVAL	CONDITION				NIL	LOGGED INTERVAL	LOGGING CO.:		• 75п		8.63m 24.0h		L	CA			1700.	428	315*	INTERVAL				502*	INTERVAL				1428-1435	1166	432*	INTERVAL		SPL TRAY No :	ABANDONED:	COMPLETED:	SPIDDED:	LONGIT ODE:	THICK. LATITUDE:	۱۵.	TOTAL DEPTH:	
PERFORATED	OIL MI				X EC.	2	CORING RECORD				TYPE	- 1	LOGGING RE	14179	1406	345	310 •	-	CASING AND TUBI		_	į,	900			WATER REG		_	MOHS	NATURAL	INITIAL OIL RECORD			8	SHO	MOHS	NATURAL FLOW	INITIAL GAS R	3080 INI		HINE 7	ADDI			1'5:	CAR FIEV	PERMIT No.
OPEN HOLEYES	NIL 8 MCF/D 8 MCF/D				ANAL CORED IN ERVAL REC		CORD				LOGGED INTERVAL		RECORD		MENTED		JOE.	HOW SET REC.	TUBING RECORD			SULPH	SULPHUR		FLOW TYPE	RECORD				FLOW API GRAVITY	CORD			MCF/D			FLOW S.I. PRESSURE		INDEX No. 752		7. 1977					674*+ 2*	4301

	C	1	Т	T	NO C			_	CI	A۱	)	T		_	SHI			L	AK	E	ER:	_	.U F	R1 A	_	Τ:		63						T		DE	-	ONI	IAN	4	Τ	_	San	_	19 GEO		¥ 1
	ordi Depin Su		CAMBRIAN		IVE	BI ACK		TRENTON					1	CATABACT					AMABEL																スペンス	DETROIT		HAMILTON		PKI, LAMBION	Drift/L	Lake/G	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	. D	WELL NAME: PL
	Supple applied	3201	2	Shadow Lake		Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Sueenston	Whiripool	Manitoulin	Cabot Head	Grimsby	Thoroid	Reynales	Irondequoit	Rochester	Goat Island	Eramosa		A-1 unit evap	anny	A-2 unit salt	carb		B unit salt	d Cunit Snote	unit		F unit shale	G unit shale	Bass Islands	Amheratburg	Lucas	Dundee	Marcellus			Drift / Lake bottom	Lake/Ground level	265 ft	NTACTS:	PETROLEUM		ACE NO.
	REMARKS	-								+		+			1227	1222	1213	1208	1187			922	206	200		865	845		101		652	588	1	487	17.5	4	263				45	- UT		TOP		OIL OIL	LAKE
	5	1								+																							1						+			573		ELEV THICK.			ERIE 63-N
				NIL	VAL	CONDITION					LOGGED INSERVAL	112				4.50m 11.5m		+	SIZE WEIGHT				3100		RVAL				NTC	INTERVAL		1238'	1252*	1244.	1240	1227*	ERVAL		SPL TRAY No.:	ABANDONED.	SPUDDED:	CONFIDENTIAL:	LONGITUDE: B	LATITUDE:	CO-ORDINATES:	AL DEPTH:	
OIL NI GAS 50 PRESSURE 41	FINAL	_			REC. ANAL CORED INTERVAL	STORED	CORING RECORD				L TIPE LOGGED	1000	LOGGING RECORD		12321	# 1232 PACKER	2630	70 808	SET AT HO	200		_	. 21		STAT. I.EV. FLOW	WATER RECORD				NATURAL FLOW		117.1 MCF/	519 MCF	SON MCF/D	219 MCF/D	496 MCF/		AL GAS	2967 INDEX No	JUNE 11	MAY 16,	<	4	42-37-12 N	ברבי.	1256° PBTD.	DERMIT No.
NIL 590 MCF/D 440 PSIG /L 1238*- 0	FINAL RESULTS				NTERVAL REC. ANAL		õ				INIERVAL	NT DOWN	RO	_		455	HOF		OW SET REC			i i	אטר פאטא	FRESH		₹D				W API GRAVITY		D.	36	30	0	/D 440 PSIG	S.I. PRES		No. 754	1161	1977	1977	SEQ: 1		0.0.410.	F 740 000 000 000 000 000 000 000 000 000	4414

		0UI	TIN	r: T	N	0 R	_	_	_				ТО	WNS	НІ	P:	L	٩K	E	ΕR	-				LO	т:		9	4		СО	NCE	SSI	ON:	_	U					Y	/EA		1977	<b>S</b>
		otal	P	2	-		RD T	_		IAI	1	╀	(	)	Т	_	Т		Þ	7	-	SIL	UR	A IS	N		_				_		T	-	_	-	v o	INI.	AN	PR		odinpie	EOL	PEOL	WELL
		Total Depth Sa	PRECAMBRIAN	DAMBRIAN	NER	BLACK		TRENTON						1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2					AMABEL																RIVER	ETROIT		HAMILTON		PRT. LAMBTON	Drift/L	Samples start at	GEOLOGICAL CONTACTS:	DRILLING CO:	WELL NAME: CO
		Samples 1660	2		Shadow Lake	Gull River	ALLKLIGIO	Verulam	Cobourg	Collingwood	Menford Dunda	Whirlpool	Manitoulin	Cabot Head	Grimsby	Thoroid	Revnales	Rocnester	Gasport	Goat Island	Eramosa	Gueiph	A-1 unit corp	anhy	A-2 unit sall		S B unit SOM		Curit				Bass Islands	Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus	Kettle Point		Drift/Lake bottom		7	UNDERWATER PETROLEUM	CONSUMERS
	REMARKS	2		1							ocor	1629	1616	1544	1502	1495	1444	244T				1088	PROT	+		+	1026	101	%e 950	T		1	556	614	534		426				94	1	TOP	RGA	13451
		MQC: 7	1	1		-					-											+											+					+				573	ELEV   THICK.		LAKE ERIE
OIL NIL OAS PRESSURE PRODUCING INTVL.	FINAL RESULTS				COREO INICIONAL COREO INICIONAL COREO	ANAL CORED INTERVAL	CON				OSED INTERVAL	CO SCHLUMBERG	Ш			27000	BULGAL OF OH THE CENTRE	WEIGHT SET AT	CASING AND TUBING RECORD						INTERVAL STAT LEV. FLOW TYPE	WATER RECORD			NIC	AL	INIT				_	30° 17 MCF/0	INTERVAL NATURAL FLOW S.I. PRESSURE	SPL. TRAY No. 2354 INDEX No. 768	JULY 11, 1977	JULY 11.	JULY 7,	CONFIDENTIAL: AUGUST 11. 1977	LATITUDE: 42+30+45 N	TOTAL DEPTH: 1 RIG TYPE: CO-ORDINATES:	IE 94-U PERMIT No: 4474

* miner			СО	ראט	ry:	1	10 F	RF1	0 L	K		_	_	Т	owi	NSH	P:	L	- A F	ΚE	ER	RIE				LO	т:	9	15	_	_	co	ONC	ESS	HOR	):	N		_	_			YE	AR	:	19	77		
1 D.S.T.		SPRIN	Total Depth	PREC.	CAMB	RIV	8	T	OTRE	110	IA	N			CATA					AMA		Γ	SII	LUF	R1 A	A N	_							1	1	Т	DE DETROIT	V	_	_	TRI.			Samples start at	GEOLOGI	GEOLOGY		¥mrr z	COUNTY:
(S) ON FILE		SPRINGVALE AT	pth Samples	PRECAMBRIAN	AMBRIAN	70	S	L	TRENTON	S	Co	Me	0	× :	CATARACT	9	Th	Re	Iro	AMABEL RO	0 0	ū	Gu				_	Se	ılin	a		_	_		80	RIVER An		Du	HAMILTON	Н	LAMOTON	Drift/ Lake bottom	Lake/Ground level	tart at	GEOLOGICAL CONTACTS:	Y BY: PI	73	AME:	NORF
TE 3		BASE ON FI	62 TPCA			Shadow Lake	Gull River	Chaireid	Verulam	Cobourg	llingwood	Meaford Dundas	Queenston	Whirlpool	Cabor Head	Grimsby	Thoroid	Reynales	irondequoit	Rochester	Goenakt	Eramosa	elph	A-1 unit evap	anny	A-2 unit salt	carb.	1	B unit salt	C unit shale		E unit carb.	unit	G unit shale	oss islands	Amheretburg	Lucas	Dundee	Marcellus		Kettle Point	bottom	nd level	462	ACTS:	PETROLEUM	CONSUMERS G	ONSUMER	
		SIOB -	PEN AR					-					1589	1525	9001	1460	1456	1446	0 1	1412	-		1156	Ť	OCTT A	+	6 1102	+	50/1	+	t	Н	П	7	694	155	7	410	400	378		56	42	#		A RESOURCE	GAS CO.	5 13414 LAKE	TOWNSHIP:
		BLANC	MQC:															Ī							-																1		573		ELEV.	E «	*	A	LAKE ERIE
TREATMENT: FORM	PROPERTY	OIL GAS PRESSURE				NIL	CORED INTERVAL REC A					87*-1629* GRNL		LOGGING CO. CON INDEDICATION		2.38H 4.7H 1429*	11.6#	8.63# 24.0# 45	51.0#	SIZE WEIGHT SET A						INTERVAL STAT. I.EV.	WATER	_		NIC	AL NA	INITIAL					1450*-1510*	Н		SPL. TRAY No.: 2526	ABANDONED:		AL:	$\vdash$	- 1	CO-ORDINATES:	AL DEPTH: 1	PERM	LOT: 95
	ED YFS OP	NIL 301 MCF/C	DE TON				ANAL CORED INTERVAL REC ANAL	STORED SECOND	00000		_	871-16291	E LOGGED INTERVAL TYPE	FOGER	-	9 HANGING 90	CEMENTED	CEMENTED	HANGING	AT HOW SET REC.	1					EV. FLOW TYPE	ER RECORD				NATURAL FLOW API GRAVITY	RECORD					301 MCF/D 762 PSIG	FLOW S.I. PF		INDEX No. 757	000	JUNE 27, 1977	Y 30, 1977	١	23 N	ELEV. 0/0.742	RB.T.D. 1555	No.	CONC: N

	_	OUN	TY:	_	N O	RF	0 L	. K					TO	WNS	SHIF	?;	L	KE	E	ER	I E			- 1	_OT	: 9	7			C	ON	CES	SIO	N: :	S					_	_	_	19			_
	0		200	L	_	_		_	CI	AN	T	L		)	_		Т		_	_	S	T	JR	IAI	٧				_			_	$\dashv$	_		-	т.	IAI				Sampl	GEOL	DRILL	OPER	COON
	0.00		CAMBRIAN		BLACK			TRENTON					1	770007					AMABEL															71407	DETROIT			TON TON	TOWNSTON	Drift/L	Lake/G	Samples start at	GEOLOGICAL CONTACTS:	DRILLING CO:	OPER ATOR:	WELL NAME: CO
	1	1680		Shadow Lake	Gull River	Coboconk	Kirkfield	Verulam	Cohoura	Meatord Dundas	Queenston	Whirlpool	Manitoulin	Cabot Head	Grimsby	Thorold	Revocies	Rochester	Gasport	Goat Island	Eramosa	evap	A-1 unit carb		A-2 unit sall		B unit salt	4	C unit shale			G unit shale	Bass Islands	Amherstburg Bois Blanc	Lucas	Dundee	Marcellus		Kettle Point	Drift/Lake bottom	Lake/Ground level	475 ft.	LE OM	UNDERWATER	CONSUMERS 6	NSUMFRS
	REMARKS										1634	1630	1616	1554	1520	1510	1407	1466				1190	1180	1174	2777	1 1 3		1068	1028	406	830	804	718	694	116.3	425	414	322		28	24		TOP	R GAS DEV	GAS CO.	13441 AKE
		200																																					1		573	-	ELEV	. ~		200
		1																																									THICK	70	`	E 97-6
				NIL	CORED INTERVAL	CONDITION			404 - 107	057-1679		l					10.15 HC/ 01	╄							INTERVAL				271	INTERVAL					1504 -1680	INTERVAL		SPL. TRAY No.:	ABANDONED:	SPUDDED:	CONFIDENTIAL:	LONGITUDE:	CO-ORDINATES:		TAL DEPTH:	LO1:
OIL GAS PRESSURE PRODUCING II	-				REC.	STO	CORING	_		GRAIL	VAL TYPE	CO .: SCHLUMBERGER	LOGGING		_	404	202	SET AT	AND						STAT LEV		_		NA. OX	INITIAL OF					_	NATUR	INITIAL GA	2293	701	JUNE	JULY	80-41-10	42-31-50	ORJ EL	16AO PBT	CONC
NIL NIL	FINAL RESULTS				ANAL CORED INTERVAL	STORED	CORING RECORD		40001-1000	65-16/9	GED IN	3ER	LOGGING RECORD			CERENTED	HANGING	HOW SET	ारग						AT LEV FLOW				ATT GRAVET	Ê					748 PSIG	NATURAL FLOW S.I.	S RECORD	×	Y 4, 1977	30,	3, 1978	W SEQ:	Z	ELEV. 573*+24	Ö	9977T

4		- 1	רדא	ر: ا	N	1 O F		_	-					Т	OW	NS	HIP	:	t	_ A	ΚE	E	RΙ	-			-	T:	_	12	2		CON	CE	SSI	ON	_	_					7	Y	EAI	-	197	_	To
		Total Depth Sa	PRECAMBRIAN	CAMBRIAN	RIVER	O BLACK	RC	-	TBENTON	CI	AI	2			CATARACT		I	_			AMABEL			510		RI	AN		_								T	DETROIT	Т	ON INC	IA LON		PRT. LAMBTON	Drift/L	Samples start at	GEOLOGICAL CONTACTS:	DRILLING CO:	OPER ATOR:	H-
		Samples 1760 ft	2		Shadow Lake	Gull River	Correction	Kirkfield	Verulam	Cobourg	Collingwood	Meaford-Dundas	Queenston	Whirlpool	Manitoulin	Cabot Head	Cimple	Tropola	Pondequoit	Rochester	Gasport	Goat Island	Eramosa	Guelph	A-1 unit	carb	A-2 unit Salt		onhy.	B unit salt	_		E unit cach	_		Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus		Kettle Point		Drift/ Lake bottom	ort at 474 TI.	0	PETROLEUM I	CONSUMERS GAS CO.	NCIMEDO
	REMARKS	2											1718	1714	1700	1630	1000	1000	1670	7002				1293	1	1273	1068	1224	1204		1157	1113	987	0000	000	700	200	2	468	458	387			89	23 573	TOP ELEV	RESOURCE	ŕ	AK 1
PRESSURE PRODUCING INTVL.  PERFORATED OPEN HOLE	OIL NIL NIL	QC: 7			2	ERVAL REC.	CONDITION STORED	CORING RECORD		:	481 -1759 DENL 481 -1746 LATL	GRNL 80*-1759*	LOGGED INTERVAL TYPE LOGGED INTERVAL TYPE		LOGGING RECORD					WEIGHT SEL AT HOW SEL MEC	CASING AND TUBING RECORD						INTERVAL SIAL CEV. FLOW	WATER RECORD					INITIAL OIL RECORD					15/5"-1/60" 20 MCF/D /84 PSIG	NATURAL FLOW S.I. PR	INITIAL GAS RECORD	SPL, TRAY No.: 3195 INDEX No. 764	: JULY 19,	ED:	SPUDDED: JULY 15,	CONFIDENTIAL AUGUST	THICK LATITUDE: 42-27-25 N	CO-ORDINATES:	AL DEPTH: 1760* PBID.	TOOLE TOOLS

		NUC	TY:	1	10 R	F	O L	K			_	TO	WN	SHI	P:		LA	KE	E	R I	E			LC	T:		12	2	_	CC	NC	ESS	101	411	W		_	_		_	Υ	ΕĀ	-	19	_		_
SP	10101	P	0		0	RD	-	-	IAI	N	1	_	2	_	_	_	_	_	_		SII	LUI	RIA	N	_		_		_		_	_	1	_	DE	V	ON	_				Somp	SEOL	GEO	DRIL	WELL	
SPRINGVALE	Deprin	ECAMB	AMBRIAN	7	BLACK		RENTON						CATABACT					AMABEL																2.402	DETROIT		TAMILION			PRT. LAMBTON	Drift/L	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	DRILLING CO:	L NAME:	Ш.
AT BASE OF	mples *000 H	1850		Shadow Lake	Gull River	Car and Car	Veruiom	Cobourg	Collingwood	Menford-Dundos	Whirlpool	Manitoulin	Cabot Head	Grimsby	Thorold	Revocies	Rochester	Gasport	Goat Island	Eramosa		A-1 unit evap.	onny.	A-2 unit sall	carb.	0	in Bunit salt	C unit shale		E unit carb		G unit shale	Boss Islands	Amnerstburg	Lucas	Dundee	Marcellus		Kettle Point		Drift/ Lake bottom	SUP THE	200	LEUM	~ _	CONSOMERS	20201121
BOIS BLANC		MOC.								1000	1805	1790	1722	1682	1665	1653	7291	3			1384	9 000	1364		1320	1297	20.00	1223		1094	1017	994	000	795	910	576		423		9		17.7	TOP ELEV.		GAS DEV	TOWARD CARE ENTE	2 200
OIL NIL GAS NIL PRESSURE NIL PRESPURINTVL. PERFORATED OPEN HOLE	FINAL RESULTS			NIC	200	CONTROL CONTROL CONTROL	CORNEL BETTOOR		500*-1852* DENL 510*-1839* LATL	*-1852* GRAII 110*-1853* C	-UMBERG					8-63E STOR STOR LIGHTED TES	WEIGHT SET AT HOW SET	CASING AND TUBING RECORD						INTERVAL STAT. LEV. FLOW TYPE	WATER RECORD			ZII F	AL NATURA	INITIAL OIL RECORD					1660*-1690* 19 MCF/D 737 PSIG	NATURAL FLOW S.I. PR	INITIAL GAS RECORD	3038 INDEX	SEPTEMBER 4,	ED: SEPTEMBER	SPUDDED: AUGUST 31 1977	W #U-7#-08	N 51-02-102	CO-ORDINATES:	AL DEPTH: 1855*	PERMIT	

N				INT	Y:	N	10 F	RF	0 L	K				т	NN	ISHI	P:	L	ΑK	Ε	ER	ΙE				LOT	:	12	3		C	ON	CES	SIO	N:	0					_	YE	AR	_	197	_	- 10	
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D.S.T. (S) ON	0 12 2 12 0 4 12 12	TNOVA	Depth	PRECAMBRIAN	A SERVICE	RIVER	BLACK		RENTON						CATARACT					AMABEL																RIVER			HAMILTON		PRT LAMBTON	Lake/G	Samples start at	GEOLOGICAL CONTACTS:	DRILLING CO:	OPER ATOR:	2 13	TY NORFOLK
FILE	3	AT BACE	Samples 1772	A		Shadow Lake	Gull River	2	Veruidm	Cobourg	Collingwood	Meaford Dundas	Queenston	Monitouin	Cabot Head	Grimsby	Thorold	Revnoles	Rochester	Gasport	Goat Island	Eramosa		A-1 unit	L	A-2 unit		B unit		_	Dunit			Bass Islands	Bois Blanc	Amherethin	Dundee	Morcellus		Kettle Point	MBTON LONG DOLLOW	Lake/Ground level	483	NTACTS:	PETROLEUM	CONSUMERS GAS CO.	CONSUMERS	
	Ş	n l	2			ike		1			۵	ndas			ă						ā		evap	carb	anhy.	salt	onny	salt	marker	shale	sall	shale	shale	is	4	3							:			RS	RS C	TO
	0												1714	1710	1626	1580	1574	1562	1523			4010	1077	1264	1256	46.00	9061		1152	1120	777	918	883	786	742	634	480	451	406		0	27		TOP	RESOURCE	AS CO.	13415 LAKE	TOWNSHIP:
	2	SKS	MQC:																																							2/3	1	ELEV	m <		AKE ERIE	LAKE
1			7																																									THICK.	0.71		IE 123-0	TIT
					-		CORED INT	CONDITION		-402hT	4741-1772	-	LOGGED IF			2.38m	# 50 m	HEN B	SIZE							INTERVAL				NIC	NTERVAL				1568*-	1230*-1300*	NIERVAL		SPL. TRAY No .:	ABANDONED:	COMPLETED:	CONFIDENT	LONGITUDE:	LATITUDE:	RIG TYPE:	TOTAL DEPTH:		-
						TO THE OWNER.	NTERVAL RE					17721	INTERVAL TYPE LO	200			11.6#			CASING		_	_									2			1773+	1300*	VAL			ED:			80-		ES: ORJ	pub		123
PERFORATEDYE	GAS PRESSURE PRODUCING							CONTROL NECOND	COBING	CMPL	DENL	GRNL	TYPE	COGGING		-		•	SET A	AND						STAT. LEV.	WATER				NATURAL OIL	2			153	N 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NATURAL	INITIAL GAS				AUGUS I	39-20	42-27-55	ELEV.	PB.T.D.	3 6	
S	15 76	FINAL RI				COLVED DATE OF THE PARTY OF THE	CORED INTER	760000	ממכוסמי		474*-1759	80 - 1772	LOGGED INTERVAL	מהכסק		HANGING	CEMENTED	HANGING	HOW	TUBING RECORD						FLOW	250000			1 . 10	FLOW	0000			MCF/D	MOF AD	L FLOW	GAS RECORD	INDEX No		8. 1977	n ca	W	Z		167		0
OPEN HOLE	MCF/D PSIG 1578*-1598*	RESULTS				1000	7				•	_	TERVAL				<i>-</i>	J	SEI	CORD	-					TYPE									762		S.I. PR		. 755		77	77	SEQ:		573*+23		Innh	
	1598*		_			-C. Maria	- 1				LATL	CALP	TYPE			849	86	0	110	2						30					API GRAVITY				PSIG	PSIG	PRESSURE						<b> </b>		-			

		C	NUC	TY:	1	10 F	F	) L	K			_	TC	WI.	SHI	P:	L	Αŀ	Œ	EF	RII	E			LO	π:	1:	23			СО	NCE	SSI	ON:	:	Х				_	_	_	_	_	977	_	- 1
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		oral peptir sa		CAMBRIAN	7 7 7	BLACK		TRENTON						CATARACT					AMABEL																RIVER	DETROIT		HAMILTON		PRT. LAMBTON	Drift/L	Lake/G	Samples start at	GEOLOGICAL CONTACTS:	DRILLING CO:	D	WELL NAME: CO
		odinbide = one of	1820		Shadow Lake	Gull River	Cabalana	Verulam	Cobourg	Collingwood	Menford Dundas	Whiripool	Manitoulin	Cabot Head	Grimsby	Thorold	Reynales	Irondequoit	Rochester	Good Island	Eramosa	Guelph	A-1 unit evap	anhy	A-2 unit salt	carb.	Sa B Unit Sant	)	C unit		_	F unit shale	_13	Bois Blanc	Amherstburg	Lucas	Dundee	Morcellus	Kettle Point		Drift/Lake bottom	Lake/Ground level	466 ft	03	UNDERWATER GAS DEV	CONSUMERS	NSUMERS
		REMARKS									4.00	27/10	1767	1698	1656	1646	1633	1	1590			1279		1265		1230	1209	Т	1136		1014	939	776	751	668		540	074			91	24		TOP	GAS DEV	GAS CO.	13417
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						CORED INTERVAL	CONTRACTOR			455 -1824		LOGGED INTERI				_		H H	SIZE WEIGHT		L				INTERVAL				NIL	INTERVAL			1			NIL	INTERVAL	SPL. TRAY No.:	ABANDONED:			P.	LONGITUDE:			TAL DEPTH:	3-X
PERFORATED	OIL N GAS N PRESSURE PRODUCING INTVL.	-				REC.	STORED NECOND			DENE	- PART -	CO. SCHEUMBERGER	LOGGING RE		_		456	01-	SETA	2				_	STAT. LEV. FLOW	WATER RE				NATURAL	INITIAL OIL R		_	_		1	NATURAL	NICKON IN					80-38-31 W	42-25-29 N	OPJ ELEV.	1825 PBILD	ORDANT NO.
OPEN HOLE	NIL NIL	FINAL RESULTS			$\neg$	ANAL CORED INTERVAL REC	CORD	2		454*-1811* LATL	#10 # = # Due	ER INTERVAL	RECORD				CEMENTED	ן ה	TO HOW SET	20 08 00 00					LOW TYPE	CORD			_	L FLOW API GRAVITY	ECORD	_					TURAL FLOW   S.I. PRESSURE	RECORD 175	77	8. 1977		1977	SEQ:		573++24		2844

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			SPRINGVALE	Total Depth Sa	PRECAMBRIAN		RIVER	BLACK		TRENTON					CATARACT					AMABEL																RIVER	DETROIT		HAMILTON		PRT. LAMBTON	Drift/L	Lake/G	ples start at	GEOLOGICAL CONTACTS:	DRILLING CO:	OPER ATOR:	- 110
			AT BASE OF	Samples 1730	N	Sundow Case	Gull River	Coboconk	Kirkfield	Verulam	Cobourg	Meaford Dundas	Queenston	Whirtpool	Monitoulin	Grimsby	Thoroid	Reynales	Irondequoit	Rochester	Goat Island	Eramosa	Guelph	A-1 unit carb	anhy	A-2 unit salt		B unit		C unit		E unit carb		12	Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus	Kettle Point		Drift / Lake bottom		531	NTACTS:	UNDERWATE	CONSUMERS G	CONCINER
			BOIS	119		+						an	1699	1692	1680	1565	1558	1547		1504			1215	9021	-		1170	+	9	/e 1073	+	952	t	T	680	610	560	461	8 8 4			104	П	7.	TOP	R GAS DEV	GAS CO.	TAVE DEPT.
			BLANC	MQC: 7	1					1	1												1															1					573	-	ELEV THICK	. ~		2016
						21.0	CORED INTERVAL	CONDITION			050.17.00.	871-17301	LOGGED INTE	LOGGING CO.:				8.63m 24	-	SIZE WE						INTERVAL				NIC	INTERVAL		1	L	Ц		1550*-1730*	INTERVAL	SPL. TRAY No.:	ABANDONED:	COMPLETED:	SPUDDED:	CONFIDENTIAL:		K LATITUDE:	RIG TYPE:	TAL DEPTH:	510
	PRODUCING	GAS	OIL F				REC.	STORED	CORING RECORD		CENE		L TYPE	SCHLUMBERGE	LOGGING R			24.0# 522 C	1040	WEIGHT SET AT	1					STAT. ILEV.	WATER RECORD				NATURAL	INITIAL OIL					18	NATURAL FLOW	П	JULY			-1	80-29-05 W	١,	ORJ	1732* RBTD.	EOT. 120 CONC.
	INTVL.	NIL	NIL RESULTS			_	ANAL CORED INTERVAL F	D	ECORD		.07/T0#h	870-17300	LOGGED INTERVAL	R	RECORD			CEMENTED	30 I	SET AT HOW SET		_				Н	F0080				FLOW	OIL RECORD				-	MCF/D	0	DECORD 765	15, 1977			14, 1977	SEQ:		/. 573*+44	Ď	I I I I I
							REC ANAL				LAIL	CALP	TYPE		1			1	104	REC						TYPE					API GRAVITY						754 PSIG	1 PRESSURE	3				3	-		t e		

u		_	_	TY:	1	10 F	-	_	_	IAN	_	_	TOV	VNS	HIF	:	L A	KE	- 1	ERI	-			_	LOT	:	1 2	5		CE	ONC	ESS	T	1:	G		ON			Т		AR		19		10
D.S.T. (S) ON	SPRINGVALE	cotol Debut Sc	ECAMB	CAMBRIAN	X < F	BLACK	T	TRENTON	10	I			CATATAC				I		AMARFI		2		UR .	IAI	N					_				2 < 0.2	0	т-	HAMILTON	_	TAIL LAMOTON	Drift L	Lake/C	Samples start at	GEOLOGICAL CONTACTS:	DRILLING CO:	OPER ATOR:	
7	AT BASE OF	Sumples + 10+ 11			Shadow Lake	Gull River	Kirkrield	Verulam	Cobourg	Collingwood	Queenston	Whirlpool	Manitoulin	Cabot Head	Grimsby	Thoroid	Irondequoit	Rochester	Gasport	Goat Island	Eramosa	Guelah	A-1 unit corb		A-2 unit salt		B unit salt		C unit shale	unit		G unit shale	Book blunc	Amherstburg	Lucas	Dundee	Marcellus		Kettle Point	Drift/ Lake bottom	Lake/Ground level	550 ft		PETROLEUM	CONSUMERS	SAJMIJSN
		REMARKS									#69T	1687	1673	1602	1560	J 4	100	1496			9 9 0	1156	1148	1145	444	1103		1049	10.30	917	846	830	720	7000	000	469	459	432		401	44 573		TOP ELEV	ES A	AS CO.	TOWNSHIT: LYN
4000					NIL	CORED INTERVAL			1431*-1710*	5291-17521	LOGGED WIERVAL	3 CO.:			_	4.500 13.64	10.75# 51.0	SIZE WEIGHT	-						INTERVAL				ZII Z				- 200T - 21CT	18729-16029	1140-1210	INTERVAL		SPL TRAY No :	ABANDONED	SPUDDED:	CONFIDENTIAL	LONGITUDE:	THICK. LATITUDE:	YPE:	TOTAL DEPTH:	FERTE TOSES FOR SEC.
PERFORATED YES OPEN HOLE	OIL NIL CAS S69 MCF/D CAS S69 MCF/D PRESSURE 754 PSIG PRODUCING INTVL. 1550*-	FINAL RESULTS		_		REC. ANAL CORED INTERVAL REC	CORING RECORD		CMPL	DENL 540*-1738*	- I TPE LO	LUMBERG	LOGGING RECORD	,	15461		106	SET AT	AND TUBING RE						STAT. LEV. FLOW TYPE	WATER DECORD			ATT GRAVET	RECORD			CIO PORTO	216 MCF/D 7	15	NATURAL FLOW S.I	L GAS RECORD	2285 INDEX No. 760	0	JULY 2, 1977	១ បា	×	42-28-30 N	ELEV.	1753* PBTD 1708*	CNC

1			T	ry:	-	NOI			-		_	_	Т	T	)WC	NSI	HIP	:	LA	A K	Ε	ER	IE				_	)T:	12!			-	ONG	ES	SIC	IN:	_	E V	_				Т	_	-	_	19	_	1 5	To
	SPRINGVALE A	Total Depth Sc	PRECAMBRIAN	CAMBRIAN		D BLACK	RC	2014	_						CATARACT				T		AMABEL			SI	LUI		A N										RIVER	_	÷	HAMILTON	AN	PRT. LAMBTON	Drift/L	Lake/G	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	DRILLING CO:	WELL NAME:	
	AT BASE OF IS ON FILE	imples 1/4/			Shadow Lake	Gull River	Cobocook	Kirkeiald	Vorulos	Cohous	Colling Colling	Monton District	1000	Whistoria of the	COOO! FIRE	Cabot Hand	0.000	Thornton	Irondequoit	Rochester	Gasport	Goat Island	Eramosa	Guelph	A-1 unit evap	Carh	A-2 unit salt	carb	B unit solt	0	C unit shale	E unit carb			Bass Islands	Bois Blanc	Amherstburg	Lucas	Morceitus		Kettle Point		Drift/Lake bottom	Lake/Ground level	546	NTACTS:	PETROLEUM	UNDERWATER	CONSCIMENS	NET INE DO
	STOR											١.	17077	1000	2001	1/101	4001	1001	7 7 7 0	1508				1180	+	1170	+-	1136	7	*	1049	t	850	Ĭ	728	654	556	204	0.7.1				101	44	#	TOP	RESOURCE	GA	EAST COL	OWNER .
	BLANC	MQC: /																																I										573		ELEV THICK	L.	<	D1113	101
DEBENDATED VEC OBEN HOLE	OIL NAT. GAS SO MCF/D PRESSURE 741 PS16 PRODUCING INTVL. 1574 = 1601	77			NIL	TERVAL REC.	CONDITION	COBING BECORD		CWD.	5787 1750 OF NE 50 - 1737 CHEF	9-1750 CDM COSC	LOGGED INTERVAL TYPE LOGGED INTERVAL TYPE			SNISNAH AGGET HANG	1 / 5 / 4	N#+OB OGO* CEMENTED	10.75# 51.0# 101° HANGING 101°	WEIGHT SET AT HOW SET	CASING AND TUBING RECORD						INTERVAL STAT. LEV. FLOW TYPE	WATER RECORD	_	r	NITE WATCHART TECH	NATION FLOW					00	15551-1747 SO MCE/D 711 DOTG	INITIAL GAS RECORD	SPL. TRAY No.: 2332 INDEX No. 767	ED:	JULY 23,		AUGUST 23,	¥	_	ORDINATES:	ELEV. 1000	PERMIT No.:	LOI. AEG CONC. A

SP		Total	NTY	T	NO C			-	CI	AN	_			1143	HIP	_	LA	KE	: E	R		ILL	JRI	_	LOT N	_		25			5014		SSIC		DI	0 E <b>v</b>	01	NIA	N	J	T	Som		197 GEOR	
SPRINGVALE	0000	Denth	PRECAMBRIAN		RIVER	2		TRENTON					CATARACT					AWADEL	^ M ^ D F -																RIVER			HAMILTON		PRT LAMBTON	Drift / I	Samples start at	GEOLOGICAL CONTACTS:	DRILLING CO :	WELL NAME:
AT BASE OF	1000	2777	2	Shadow Lake	Gull River	Coboconk	Kirkfield	Verulam	Cobourg	Meaford Dundas	Queenston	Whirlpool	Manitoulin	Cabot Head	noroid	Reynales	Irondequoit	Rochester	Gasport	Goat Island	Eramosa	evap	A-1 unit carb		A-2 unit sall		B unit salt		_	Dunit salt	F unit Shale		Bass Islands	Bois Blanc	Amherethur	Dundee	Marcellus		Kettle Point	-	Drift / Lake bottom	DBC		PETROLEUM RESOURCE	CONSUMERS
SIOB	REMAR	**								5	1744	1738	1722	1654	2667	1585		1542			27.27	+	1200		2, 1100	+	+	ker 1108	+	t	888	t	П	724	640	400	1	484		400	106	ft.	TOP	RESOURCE	GAS CO.
BLANC		MOC: 7																			-																				0	272	ELEV THICK.		EKTE
OIL NTL GAS 69 MCF/D PRESSURE 762 PSIG PRODUCING INTVL. 1597*-1608*	FINAL RESULTS			22	CORED INTERVAL REC. ANAL CORED INTERVAL REC. ANAL	CONDITION STORED	CORING RECORD		OKAL DEGILE	98 - 1776	L TYPE LOGGED INTERVAL	CO: SCHLUMPERGER	LOGGING RECORD	TOGO, MANGING	11.001 1/694	24.0# 571 CEMENTED	106	WEIGHT SET AT HOW SET	CASING AND TUBING RECORD						INTERVAL STAT LEV FLOW TYPE	EAH900000				INTERVAL NATURAL FLOW API GRAVITY	NITIA OL BECORD				13001111.	NATURAL FLOW S.I. PR	INITIAL GAS RECORD	SPL. TRAY No.: 2408 INDEX No. 772		ED: AUGUST 5	N C	80-29-54 W	LATITUDE: 42-27-36 N	DINATES: ORJ ELEV.	TOTAL DEPTH: 1777* PRTD 1742*

,			_	YTY	:	N	O R	FO	LI	K				TO	1W	SH	P:	L	A I	Œ	EF	IE				LO	T:	1	26			СО	NCE	SS	ION	:	_					_	_	AR:		977		· Ic
1			<u>:</u>   :	2 2	, -	_	_	DO	_	10	IA	N	4	_	0			_		_	_	. :	SIL	UF	Α 15	N								_	+	_	DE.	VC	_	AN	_			Samp	GEOL	DRIL	OPE	2002
		000		CAMBRIAN		RIVER	BLACK		TRENTON						CATARACT					AMABEL																RIVER	DETROIT		HAMILTON		PRI LAMBION	Drift/L	Lake/G	Samples start at	GEOLOGICAL CONTACTS:	DRILLING CO:	OPER ATOR:	COUNTY: NONTOES
		0	1730	2	Suggest Fake	Gull River	Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Meaford-Dundas	Queenston	Whirlpool	Cabot Head	Grimsby	Thorold	Reynales	Irondequoit	Rochester	Goat Island	Eramosa		A-1 unit		A-2 unit		Sa	D	C unit	unit		unit	Gunit sa	Bos Blanc	Amherstburg	Lucas	Dundee	Marcellus	Kerrie Point	-	Drift/Lake bottom	Lake/Ground level	610	NTACTS:	UNDERWA	CONSUMERS G	OLD CLO
					ã		L	L		L	۵	das			۵	L					٩			Carp	anhy	sa/f	carb.	anhy.	salt	shale	1/03	carb.	shale	shale	1	6			1		1	L		0 ;		TER	RS G	0
		REMARKS											1696	1602	1606	1563	1552	1540		1497			1198	1100	282		1136		*C0T	1064		945	867	1118	700	600		519	-			104	t t		TOP	RESOURCE	AS C	AUSHIN NA
		1 1:	M O C:																																								573		ELEV	11 <	í	AKT TOTAL
			1																																									_	THICK	וב ר	5	E 106-1
					N L	CORED INTERVAL	CONDITION				594 *-1739 *	-	LOGGED INTER	OGGING CO	-			8.63m 24	4	SIZE WE						INTERVAL				NIC	INTERVAL						1545*-1738*	INTERVAL	OT E. 1731 140	SPI TRAY No.	COMPLETED.	SPUDDED:	CONFIDENTIAL:	LONGITUDE:	LATITUDE:	RIG TYPE:	TOTAL DEPTH:	רסו:
PERFORATED	PRESSURE PRODUCING			_		REC. ANAL		CORING			9º DENL	9º GRNL	INTERVAL TYPE LOGGED INTERVAL	COULT I MEED				24.0# 5941	$\neg$	SETA						STAT. I.EV.	WATER				NATURAL	INITIAL OI		_			-	NATURAL	INITIAL G	3067	JULT	JULY	AUGUST	80-21-42	42-28-34	OPJ EL	* 3	1 CONC.
	OIL NIL GAS NIL PRESSURE PRODUCING INTVL.	FINAL RESULTS				CORED INTERVAL	STORED	CORING RECORD			6049-	1010-	LOGGED IN	LOGGING RECORD				CEMENTED		HOW SET						FLOW	WATER RECORD				AL FLOW							AL FLOW	INITIAL GAS RECORD	INDEX NO	3 00	200	T 28,		z		5	-
OPEN HOLE		ESULTS				RVAL REC	1		-		604 -1726   LATL		TERVAL		-					SET REC						TYPE					API GRAVITY	1 [					587 PSIG	S.I. PRESSURE		773	19//	1977		SEQ: ]		573+444		11170

			OUN 1	TY:	_		R	_	_		_			_	۲٥١	VN:	SHI	P:		LA	KI	E	ΕR	_				_0T	:	12	26			CC	ONC	ES	SIO	N:	_	0	_				7	Y	_	_	197	_	٤
		0.00		CAMBRIAN		RIVER	_	T	TRENTON	_	AIS	N			CATARACI						AMABEL			5		JRI	AI												_	DETROIT		HAMILTON	_		PRT. LAMBTON	Drift/	Somples story of	GEOLOGICAL CONTACTS:	GEOLOGY BY:	DRILLING CO:	WELL NAME: CO
		000000000000000000000000000000000000000	1700		Shadow Lake	Gull River	Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Meaford-Dundas	Queenston	Whirlpool	Manifoulin	Cabot Head	Grimsby	Thorold	Reynales	Irondequoit	Rochester	Gasport	Good Island	Guelph	екар	A-1 unit carb	-	A-2 unit salt		E unit	:	C unit		E unit carb	F unit shale	G unit shale	Bass Islands	Bois Blanc	Amherethura	Lucas	Dundee	Marcellus		Kettle Point		Drift/Lake bottom	Carol level	10	EUM		S
		REMARKS											1754	1748	1730	1660	1612	1608	1594	0	1550			1240	2016	1235	1232	1071	1000	4 0 0 1	1144	$\top$		986	910	887	786	748	650		556		517			102	1111	100	RESOURCE	R GAS DEV	UMERS 13445 LAKE ERIE 12
		S	2000	-		-															1	-	1							-										1			1				572	ELEV		<	AKE ERI
		ľ							-											1	1	-							-											1			2			10.0		THICK.	1 -	RIG	. 6
					ZIL	CORED INTERVAL	CONDITION			1476*-1742	596 -1791	83*-1791*	LOGGED INTERVAL	LOGGING CO.:	I	_	2.381 4		8.63m 24	-	SIZE WE	0						INTERVAL				NIL	INTERVAL							1600*-1791*	INTERVAL		SPI TRAY No	ABANDONED:	COMPLETED:	SPUDDED:	CONFIDENTIAL .	LATITUDE:	CO-ORDINATES	TYPE:	
	OIL GAS PRESSURE PRODUCING	-				REC.		CORIN	-	1	I. DENL		RVAL TYPE LOG	SCHLUMBE	LOGGING		4.7# 1582	11.6# 1780	.0# 596*	$\rightarrow$		CASING AND						STAT I FV	WATE	_	_	_	NATU	INITIAL C		_	_			+	NATURAL	П	2305		JULY .	7 10 10 10 10 10 10 10 10 10 10 10 10 10	ALCICT POR	G2-12-125		0RJ F	PERMIT
BEBEOBATED YES OBEN HOLE	NIL 66 MCF/D JRE 746 PSIG 746 PSIG 1612*-1622*	FINAL RESULTS				ANAL CORED INTERVAL		CORING RECORD			6091-17781	_	LOGGED INTERVAL	RGER	IG RECORD	_		CEMENTED		HANGTNO	T HOW SET	AND TUBING RECORD						FLOW	B 10000				NATURAL FLOW API	õ					-	MCF/D	- 1		NDEX No. 763			15	٦ 2	z		ELEV. 573*+44*	
1	D -162	-				REC. ANAL							TYPE				991	10	1	102	REC							TYPE					API GRAVITY							746 PSIG	RESSU	ľ	all.				-			4	

		ī	YTY	T	NO	-	-	-	CI	AP	ų	Ι	ТО		31111		LA	KI	E	ER		il	UR	ΙA	LOT N	. 1	52	-			CON	-	010		DI	_	01	NIA		J	Ť	Sam	100	19 GEC	-	WELL	COL
	Total Depth So		CAMBRIAN		RIVER	BL ACK		TRENTON						CATABACT					AMABEL																RIVER			HAMILTON		PRT LAMBTON	Drift/L	Samples start at	GEOLOGICAL CO	GEOLOGY BY:		2	COUNTY: NORFOLK
	Samples	1900	2	Shadow Lake	Gull River	Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Manford-Dundas	The state of	Manitoulin	Cabot Head	Grimsby	Thorold	Irondequoit	Rochester	Gasport	Goat Island	Eramosa	Girolah	A-1 unit carb	anhy	A-2 unit salt		B unit	n arker	Cunit		F unit Shale	G unit shale	Bass Islands	Bois Blanc	Amherstburg	Dundec	Morcellus		Kettle Point		Drift/Lake bottom	DZC	CONTACTS:	PETROLEUM	CONSUMERS	CONSUMERS	OLX
	REMARKS	-									+	1000	1837	1769	1724	1716	FOFF	1658				1 350	0 1348		-	1001	+	rker 1250		+	1100	П	894	844	774	664		474	420		110	11.	TOP	PETROLEUM RESOURCE	S GAS CO.	133	TOWNSHIP:
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		1	1	MIL	CORED INTERVAL	CONDITION				4901-1901	100	LOGGED INTERVAL	1					SIZE WE	1			1			INTERVAL				NIL	INTERVAL				Ц	TOST	INTERVAL		SPL. TRAY No :	ABANDONED:	COMPLETED:	SPUDDED:	CONGITUDE:	Ŀ	CO-ORDINATES:	AL DEPTH:	2-C	
OIL GAS PRESSURE PRODUCING I	5				REC.	STORED	CORING RE			2 C	GRAIL	LUMBERG	LOGGING R			4004	110		AND						STAT. I.EV. FLOW	EATRO				NATURAL	2			_	-	NATURA	INITIAL GAS		AUGUST	AUGUST		M #5-12-08	42-24-15 N	OR O ELEV.	•	PERMIT No.	LOT: 152 CONC:
NIC NIC	FINAL RESULTS		_		ANAL CORED INTERVAL RI	0	CORD			AAA *	1009-10019	CORRED INTERVAL	RECORD			MENTED	HANGING	HOW SET							FLOW TYPE				-	L FLOW API G	FCORD				, t	S.I.		INDEX No. 776	2, 1977	1. 1977	29, 1977			0/3***		4443	C
	-	_			REC ANAL				f	ATI	2 :	TYPE					110	REU.							PE					API GRAVITY					Sign bar	PRESSURE						-			•		

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			NACAMAN		RIVER	BL ACK		TRENTON						CATARACT						AMABEL																		RIVER	-		TANIC OF	TON TON		PRT. LAMBTON	Drift/L	Lake/Ground level	les start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	OPER ATOR:	COUNTY. NOW OF
		2000 ft		Shadow Lake	Gull River	Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Meaford Dundas	Queenston	Whirlpoot	Manitoulin	Cabot Head	Grimehy	Thorold	Revnales	rondequait	Rochester	Gasport	Cont le look	Guelph	ечар	A-1 unit carb	anhy	A-2 unit salt		0		Cunit	זומט				Bass Islands	Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus		Kettle Point		Lake bottom		419 ft	1	PETROLEUM R	CONSUMERS G	SCHWEDS
	REMARKS											1962	1958	1947	1864	1010	1904	1792	9111	1747			1400	100	1448	1443		1410	199	2040	12CT	204	DATT	7777	CENT	974	950	839		746		564	332		114	44		401	RESOURCE	0	14440000
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			_	NTC	CORED INTERVAL	CONDITION			_	410*-1999*	9		LOGGING CO.:					1000000	4	-	CA						INTERVAL		1		NIC	INTERVAL	INTERVAL					1795*-186	1739*-1804*	INTERVAL		**		0:		P.	LONGITUDE:	LATITUDE:	YPE:	AL DEPTH:	151-0 LOI:
OIL GAS PRESSURE PRODUCING II	F)	_			REC.		CORING RECORD	_		9º DENL	GRNL	INTERVAL TYPE LOC	SCHLUMBERGER	LOGGING RI				01-01-1-01-01-01-01-01-01-01-01-01-01-01	9 1/1 0	SETA	CASING AND TUB	_					STAT. LEV. FLOW	WATER RE		_		NATOKAL	INITIAL OIL RECORD			_		0,	t a	NATURAL	INITIAL GAS RECORD	3008 IN				SEPTEMBER 1		42-21-14 N	ORJ ELEV.	2000 PBTD	TO CONC.
NIL NIL	FINAL RESULTS				ANAL CORED INTERVAL REC	1	CORD			4201-19841 LATL	1121-19991	LOGGED INTERVAL		RECORD			TO POST OF THE POS	CEMENTED LIT		HOW SET REI	TUBING RECORD						FLOW TYPE	CORD				FLOW AFI GRAVITY						333 PSIG		FLOW S.I. PRESSURE		×			3	15, 1978	SEQ:		573*+44*		MANAGE

		_	NTY	:	N O	-	_	_			_	Т	OWI	NSH	IP:	LA	KE	E	RI	_	_	_	_	LO1	Γ:	15	4	_	_	COI	NCE	SSI	ON:		Α	_		_	_	,	_	_	197		<b>S</b> (
		Total Depth Sc	PRECAMBRIAN		RIVER	_	00	TRENTON	T	N			CATARACT					AMABEL			SIL	UF	A I	N	_	_								RIVER	DETROIT		HAMILTON	AN	PRT. LAMBTON	Drift/L	Lake/G		GEOLOGY BY:		äll.
		Samples 1830 ft	AZ	Shadow Lake		Coboconk	Kirkfield	Veruiam	Collingwood	Meaford Dundas	Queenston	Whirlpool	Manifoulin	Grimsby	Thorold	Reynales	Irondequoit	Rochester	Goat Island	Eramosa		A-1 unit evap	anhy	A-2 unit salt		0	lin B unit salt	Curit			unit	Bass Islands	Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus	Kettle Point	-	Drift/Lake bottom	- 1	402 ft	PETROLEUM RESOURCE	CONSUMERS	CONSUMERS
	REMARKS	M				Ī					1794	1788	1773	1662	1653	1640	3000	1596			1278	7007	1265		1228	1208	Т	1136		1013	938	010	773	705		586	204			91	24 573	- סד ברבע	RESOURCE	GAS CO.	111
PERFORATED OPEN HOLE	FINA	QC: 7		210	CORED INTERVAL REC. ANAL CORED INTERVAL REC ANAL	CONDITION STORED	CORING RECORD		269101/,	GRNL 80 - 1830 -	INTERVAL TYPE LOGGED INTERVAL		LOGGING RECORD			CEMENTED	51.0# 91. HANGING	SIZE WEIGHT SET AT HOW SET REC.	A					INTERVAL STAT LEV. FLOW TYPE	WATER RECORD			ZIF.	AL NAT	INITIAL OIL RECORD						INTERVAL NATURAL FLOW S.I. PRESSURE	SPL. TRAY No.: 2000 INDEX No. 701	VDONED: SEPTEMBER 1, 1977	AUGUST 31+	SPUDDED: AUGUST 28.	CONFIDENTIAL: SEPTEMBER 30+ 1977	LONGITUDE:	CO-ORDINATES:	AL DEPTH: 1831*	IE 154-A

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			7010	2	0		С	R	_	_	CI	AN	-	L	_	2	_	_	_		_	_		SIL.	ŲRI	AN	_				_			_	4	_	_	ΕV	1	_	_			2	Some	GEO	DRIL	אפרר	
70 100			Total Depth Sa	PRECAMBRIAN	CAMBRIAN		מראלא	BI ACK		TRENTON						CATARACT					AMABEL																RIVER			HAMILTON		PRT. LAMBTON	Drift/L	Lake/G	Somples stort of	GEOLOGY BY:	DRILLING CO:	WELL NAME.	- 1-
		- 1	Samples 1878 ft	P		Shadow Lake	Gull River	Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Queenston	Whirlpool	Manitoulin	Cabot Head	Grimsby	Thoroid	Revnales	Kochester	Gasport	Goat Island	Eramosa	Guelph	A-1 unit carb	A-C UNIT Son			E B unit Salt	Cunit	-	E unit carb	F unit shale	G unit shale	Bass Islands	Bois Blanc	Lucas	Dundee	Marcellus		Kettle Point		Drift/Lake bottom		05	PETROLEUM	UNDERWATER GAS DEV	CONSUMERS	NSI IME PO
		REMARKS	4										0491	1833	1820	1750	1709	1696	1692	1640				1307	1294		1250	H	100	1197	+	1047		950	852	803	740	010		424	407		112	44	2	RESOURCE	R GAS DE	GAS CO.	3000
			MQC: 7																											-							+							573	ברבא		<	70	אור בודה
						NIL	CORED INTERVAL	CONDITION			1552*-181	4829-1878	LOGGED INTERVAL	1 4,		┢			10 10 10 10 10 I	+						IN TEXAME	INTERVAL			NIC	INTERVAL						TOAD. T. 1060T	INTERVAL		SPL. TRAY No.:	ABANDONED:	COMPLETED:	SPUDDED:	CONFIDENTIAL	LONGITUDE:	١,	RIG TYPE:	TOTAL DEPTH.	בנייר בטוי
PERFORATED Y	OIL GAS PRESSURE PRODUCING	-	_				REC.	STORED	CORING		CMPL		CONT	LUMBERG	LOGGING		1670 *	18481	10 HO 10	SET AT	- 63		_			O. M. C. C. V.	WATER RECORD				NATURA	INITIAL OIL F					_	+	Ш	3018 INDEX No.		SEPTEMBER	SEPTEMBER	OCTOBER	80-37-03		ORU ELEV.	1879* BB1	AND CONC.
PERFORATED YES OPEN HOLE	NIL 191 800	FINAL RESULTS	_				ANAL CORED INTERVAL	€D.	RECORD			4921-19651	LUGGED INTERVAL	70	RECORD		HANGING	CEMENTED	HANGING	HOW SET						FLOW	-			_	L FLOW API	RECORD				_	-	NATURAL FLOW S.I.		١.,		7,	ធា :	7. 1977	¥ SFO:		< 0	19139	
FE	MCF/D .PSIG 1700*-1720*	S					REC ANAL			_		ATI	-	1			109*	111	717	REC.						1770	1400				GRAVITY						O PSIG	S.I. PRESSURE		184					-		4 4 4		

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2			Depth	PRECAMBRIAN	3	RIVER	BLACK		TRENTON						2				1	A A A A A A A A A A A A A A A A A A A																RIVER			HAMIL TON		PRT. LAMBTON	Lake/G	Samples start at	GEOLOGICAL CONTACTS:	DRILLING CO:	OPER ATOR:	
		1 1	Samples 1900	Z	Suddow Lake	Gull River	Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Queenston	Whirlpool	Manitoulin	Cabot Head	Grimsby	Thoroid	Irondequoit	Rochester	Gasport	Goat Island	Eramosa		A-1 unit C	1	A-2 unit s		alii B unit		upit i	Dunit	F unit		Bass Islands	Bois Blanc	Amherethura	Dundee	Marcellus		Kettle Point	MBTON Lake Dollow	Lake/Ground level	436	NTACTS:	PETROLEUM	CONSUMERS GAS CO.	CONCLIME
			3	1	e e		L	L			400		ļ	L	۵	1	1	1	L		۵	1	ечар	corb	anhy	sall.	anhy.	solt	marker	shale	Sall	Snole	shale	8	ľ	_	L	L		1	1	L	;;		TER A	35 C	100
		REMARKS										4/01	0/81	1854	1779	1735	1726	3	1670			1007	200	1348	1344	1010	0621		1248	1224		1099	996	902	944	752	656		464	363	200	22.0		ТОР	RESOURCE	GAS CO.	TANKA DEL
		1 1	MQC:																																							573		ELEV	111 €	í	TAKE FRIE
			1										Ī																															THICK.			15 154-1
				_	מיני	CORED INTERV	CONDITION				424 - 1908	TOUGHT IN IE	193				0.000		1	0						INTERVAL				NIC	INTERVAL					1720*-1783*	INTERVAL		SPL. TRAY No.:	ABANDONED:	COMPLETED:	CONFIDENTIAL	LONGITUDE:	LATITUDE:	YPE:	AL DEPTH:	101.
PERFORATED	GAS PRESSURE PRODUCING		_			AL REC. ANAL					DENE DENE	7000	SCHLUMBERGER	LOGGING			+ 0 UR 4 2 D +		WEIGHT SET AT	AND			_			STAT, LEV.	E 24 1	_				NITIAL		_	_	330	NATURAL	INITIAL G		SEPTEMBER	SEPTEMBE	OCTOBER	80-36-43	- 1	ORL	1908 P	LOIL TOT CONC.
PERFORATED OPEN HOLE	OIL NIL GAS NIL PRESSURE PRODUCING INTVL.	FINAL RESULTS				L CORED INTERVAL	STORED	CORING RECORD			424 - 1895	LOGGED INTERVAL	GER INTERVA	G RECORD			CEMENTED		+							FLOW		_	_	1000		NITIAL OIL RECORD				791	FLOW S.I.	RECORD	INDEX No. 7	UT :	R 4, 1977	4	2	2	ELEV. 573*+23	PBTD.	2 2
FE		S		_		REC ANAL					LATL	Ι.	1			_		4Z6	REC.							TYPE					API GRAVITY					1 PSIG	PRESSURE		85				2: 1		23		

		OUN	ITY.		N O		_	_	_			Т	Т	wi	NSH	IIP:	:		LA	٩K	E		1 E		_		т:	_	15	4	_		CON	CE	SSI	ON	_	P	-			_	_	_	EAF	-		97		To
		Total Depth Samples	CAMBRIAN		Z   V   Z   Z   Z   Z   Z   Z   Z   Z	R	_	TRENTON	CI	AN			_	CATARACT		T		T		AMABEL			SII	_U1	RIA	AN											RIVER	-	V	HAMILTON	_	TAIL LAMBION	DET I AMBTON	Lake/G	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	DRILLING CO:	WELL NAME:	
		mples 1971 ft		Shadow Lake	Gull River	Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Cueenston	Whiripool	Montroutin	Cabot Head	Grimsby	Thorold	Reynales	Irondequoit	Rochester	Gasport	Goat Island	Eramosa	Guelph	A-1 unit evap		A-2 unit salt			B unit sall	0 0000		Dunit sall		E unit shale		Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus		_ [	de portom	Lake/Ground level	4 OCh	2	PETROLEUM	UNDERWATER GAS DEV	CONSOMERS	J.
	REMARKS	M.									DAKE	TAGE	C26T	1850	1800	1792	1780		1735				1442	i i	1429	2011	1390	1370		1326	1300	**00	1401	1065	960	020	814		706	000	707	DEE	211	t		TOP ELEV	RESOURCE	GAS DEV	13432 LAKE	4
		MQC: 7			COI	COI																											+							19	200	A C	3 4	2/3		THICK		70T/	ERIE 154-P	12
				NIL	TAVE	NDITION			-	4121-19721	SOES IN ENVAL	LOGGING CO. SCI		_		_		10.75m 51.0m	╀							INTERVAL				741	NT TO SERVICE	INTERVAL					17851-18451	1790 *	INTERVAL	On E. 1000 140		COMPLETED.	OPPODED.		LONGITUDE:		ORDINATES:	TYPE:	סיי	LOT: JO4
PRESSURE PRODUCING INTVL	OIL FINAL		_	_	REC. ANAL CORED INTERVAL	STORED	CORING RECORD			DENT.	CDAH LOGG	CO. SCHLUMBERGER	LOGGING RECORD				4124	1121	SET A	GAND						STAT. LEV. FLO	WATER RECORD				77.0022	NATURAL FLOW	171AI OII BE					MOHS	NATURAL FL	GAS	1074 NO.		AUGUST 150		15			ORJ FIEV	PERMIT No.:	1S
VI. NIL	NIL RESULTS		_	_	INTERVAL REC		ORD			124 - 1968   ATI		TO EXTENSE	OXD				CEMENTED	HANGING	HOW SET	TUBING RECORD						TYPE W					+	OW API GRAVITY					800 PSIG		FLOW S.I. PRESSURE		١,	1977			SEQ:			573+443	4452	No. of Contract of

GAS		ţ	0 0	Ţ		O F	RD	ov	10	ΙA	N				_								SI	LU	RI.	A N										I	t	DΕ	V	N	IAI		J	T	/EA	2 5	GEC		OP	Ę N	COL
S ANALYSIS		Total Depth Sa	PRECAMBRIAN		< m	BLACK		TRENTON						CATARACT						AMABEL																	RIVER	DETROIT		HAMILION			PRT LAMBTON	Drift/L	Lake/Ground	Semples stort of	GEOLOGY BY:	DRILLING CO :	OPER ATOR:	NAME.	COUNTY: NORFOLK
IS ON FILE		Samples 1965 ft	AZ	Oliver many	Shodow Lobe	Coboconk	KITKTIEIG	Verulam	Cobourg	Collingwood	Meaford Dundas	Queenston	Whirlpool	Manitoulin	Cabot Head	Grimsby	Thorold	Revnoies	Irondequoit	Rochester	Goat Island	Eramosa	Guelph	A-1 unit evap	carb	A-Z unit san		s anhy	B unit salt	a marker	C unit	unit	_	_	Bass Islands	Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus		Kettle Point		Drift/Lake bottom	level	460 #	E CM	UNDERWATER	CONSUMERS	NSUMERS	70
	REMARKS											1928	1924	1903	1841	1782	1776	1763	9	1700			1412		1398	1396	1360	1340		1293	1269		1146	1069	1044	7.06	787		692	Ī	506	354		115	44	-	XE GOOK CE	GAS DE	GAS CO.	13435 LAKE	TOWNSHIP:
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OIL NIL OIL OIL OIL OIL OIL OIL OIL OIL OIL O	FINAL RESULTS				CORED INTERVAL NEC. ANAL CORED INTERVAL REC	O CARD	CORING RECORD			1965' DENL	102'-1965' GRNL 102'-1965' CALP	LOGGED INTERVAL TYPE LOGGED INTERVAL TYPE	LOGGING CO.: SCHLUMBERGER	LOGGING RECORD		4.7H 1758 HANGING	11.6# 1948*	Belgan on on the car the care of the care	ST OH TISE LANCTHE	SIZE WEIGHT SET AT HOW SET REL						NIERVAL SIAT LEV. PLOW	WATER RECORD					TURA	INITIAL OIL RECORD					1770'-1825' 85.5 MCF/D 796 PSIG	INTERVAL NATURAL FLOW S.I. PRESSURE	INITIAL GAS RECORD	SPL. TRAY No : 3012 INDEX No. 782		ED: AUGUST 25		AL: SEPTEMBER 25, 1977	LONGITUDE: 80-36-37 W SEO: 1	CO-ORDINALES:	ORL	AL DEPTH: 1965* RBTD. 191	4-S PERMIT No.	LOT: 154 CONC: 5

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		color Debin Comples	PRECAMBRIAN	CAMBRIAN	7 7 7	O BLACK	Т	00	TREATON	CI	AN				CATARACT					AWADEL	7		S		UR	AHA	N									1	100	DETROIT	I	_	HAME TON		PRT. LAMBTON	Drift/L	Lake/G	September of	GEOLOGY BY:	DRILLING CO:	OPER ATOR:	- II.
		- 1	AN		Shadow Lake	Gull River	Coboconk	Xirkfield	Verulam	Cohoura	Collingwood	Morford Dunda	Whirlpool	Monitouin	Cabot Head	Grimsby	Thorold	Reynoles	Irondequoit	Rochester	Gasport	Goat Island	Eramosa	Gueloh	A-1 unit Carb	anhy	A-2 unit sall		B unit salt		C unit shale	unit	E unit carb		G unit shale	Boss Islands	Bois Blanc	Lucas	Dundee	Marcellus		Kettle Point		Drift/Lake bottom		101 AC 10.	PETROLEUM RESOURCE	UNDERWATER GAS DEV		NCHIMERO
		BEMARKS									1	2000	796T	0467	18/8T	1820	1813	1800	Ī	1756				1448	1439	1436		1400	4	1340						944	986	9	702		524	338		114	44	- 07		GAS DEV		3 NO 1 12 12 1
		400	7			CORED	CONDITI			1676	414	100000	LOGGING			2.38n	4.50п	8.63n	10.75	SIZE							INI					. N.					1000	1000	INT		SPL. TRAY No.:	ABANDONED	COMPLETED		573 CONFIDENTIAL	ECEN THICK CATTODE	TUICE O	RIG TYP		1 - 12 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
PRODUC	OIL GAS PRESSURE	-				CORED INTERVAL REC. ANA		CORIN	* 700	-1035 CMDI	_	- 3000 COM				4.7#	11.6H	24.0#	51.0#	SET A	CASING AND						INTERVAL STAT. LEV	WATER			NIL		INITIAL O				1040	1 1 1 1 1 1 1 1 1	ERVAL	INITIAL	2488			D: AUGUST	- 1	DE: 42-20-20	1	ORL	2001 *	TOTAL CONC.
INTVL.	NIL NCF/D	FINAL DEGILL TO			7	ANAL CORED INTERVAL REC	STORED	CORING RECORD		1000	1000 - 1000 ·	100000	CO: SCHEUMBERGER	GRECORD				CEMENTED	HANGING	F HOW SET	TUBING RECORD						STAT. LEV. FLOW TYPE	RECORD				RAL FLOW   API GRAVITY	OIL RECORD					MCE AD	RAL FLOW S.I. PRESSURE	RECORD	INDEX No. 780		19,	16,	٦	€ 2	- 1		PATO 1933+	,

			_	NT	Y:	١	IOF	RF	0 L	K				1	OV	/NS	HIP	:	L A	ΚE	E	RI	E			LC	τ:	1	54			C	ONC	ESS	SIO	V:	Υ						Y	ΈA	_	197		- 1	
	GAS		Total	9	٥		0	RE	_	-	014	N		L	-		_	_	_	_	_	_	SI	LU	RI/	AN		_			_		-	_	4	_			-	HA				Samp	GEOL	GEO	OPE	WELL	COUNTY
	5 ANALYSIS		Depth	PRECAMBRIAN	AMBRIAN	RIVER	BLACK		Z P Z I C Z						CATARACT					AMABEL																100	DETROIT		1	HAMIL TON		PRT. LAMBTON	Drift/L	Samples start at	GEOLOGICAL CONTACTS	GEOLOGY BY:	· D	z	NTY: NORFOLK
	IS ON FILE		Samples 1985	N		Shadow Lake	Gull River	Cobook	Kirkfield	Verylong	Collingwood	Meaford Dundas	Queenston	Whirlpool	Manitoulin	Cabot Head	Gimebu	Reynoles	Irondequoit	Rochester	Gasport	Goot Island	Guelph	A-1 unit	2 9	A-2 unit s	2		B unit	C unit	unit	Spit		G unit  s	Bass Islands	Bois Blanc	Lucas	Dundee	Marcellus		Kettle Point		Drift/Lake bottom	Count level	NTACTS:	PETROLEUM	CONSUMERS	CONSUMERS 13433 L	
	m		2			â	1	1	1	1	1	das	L			-	1		L			1	L	ечор	carb.	sall	carb.	onhy.	salt	shale	salt	carb.	sha/e	shale .	_	_[	1	L	L			_	1	7.1		R	รือด	1 5	TOWNSHIP: L
		REMARKS											1958	1950	1934	1862	1010	1798		1754			1438		1407	1 1 2 2 2	1388	1368	000	1621		1168	1089	1062	928	906	700	694		517	338		114	44	TOP	RESOURCE	AS CO.	3433 L	TOWNSHIP:
			MQC:																																									573	ELEV			LAKE ERIE	LAKE
			1																																										THICK.			IE 154-Y	ERIE
						Z	CORED INTERVAL	CONDITION		ACKT C.OT	1020-1020 1020-1020	108*-1984		LOGGING CO.:				8.63m 2				•				INTERVAL				NIC	INTERVAL			_			CRAT-, DORT	INTERVAL		SPL. TRAY No :	ABANDONED:	COMPLETED:	SPUDDED:	CONFIDENTIAL:	LATITUDE:	CO-ORDINATES:			LOT
70	PPGO	-		_	_	_	AI REC		,		•		INTERVAL	SCHL	_			#0.45			CASING	_			_		V					INITIAL					85	3	INITIAL	: 2594					2-24	1	1985*	PER	154
ERFORAT	GAS PRESSURE PRODUCING							STORED	ORING	1	DENL	GRNL	TYPE		OGGING	000	000	414	114*		AND TO					T. LEV.	WATER				NATURAL	AL OIL					60	NATURA	ш			AUGUST	TALLA	SEPTEMBER	42-20-31	5.5	PBT.D.	MIT No.	LOT: 154 CONC:
PERFORATEDYES OPEN HOLE	NIL 808	FINAL RESULTS		_		7	FDINTERVAL	SED COLO	CORING RECORD		524*-1971*	108 - 1984 •	LOGGED INTERVAL	ER	RECORD	TO TOTAL	CEMENTED	CEMENTED	HANGING	HOW SET	TUBING RECORD		_			+	RECORD	_			FLOW	RECORD					WCF/0 808	L FLOW S.I.	RECORD	INDEX No. 771		10,	20 0	<b>-</b>  ³	; Z		rp. 1935*	4455	CONC: Y
m	MCF/D PSIG 1815*-1826					- 11	REC ANAI		-		LATL					4 4 4	CTT		114	REU.						TYPE					API GRAVITY	2					PSIG			1				-			•		

	_	OUN.	TY:		N O	RF	0	L K	_			_	TO	W	VSF	(IP	:	1	L A	KE	-	R	1 E			L	.от	:	15	5			co	NC	ESS	ION	4:	K						`	YEA	-	-	97		-	
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	rotat peptir ou		CAMBRIAN		BIVE B	BI ACK		TRENTON						CATARACT						AMABEL																	23402	DETROIT			HAMILTON		PRT. LAMBTON	Drift/L	Lake /G	Samples whethat	GEOLOGY BY:	DRILLING CO:		NAME	COUNTY: NORFOLK
	-	1050		Shadow Lake	Gull River	Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Manford-Dunder	Whiripool	Monitourn	CODOT Head	Grimsby	Inoroid	Reynoles	Donoggoon	l'ondennie	Rochester	Good Island	Eramosa	Guelph	ечар		anhy			B unit		C unit shale	D unit salt		F unit shale	G unit shale	Bass Islands	Amnerstourg	Lucas	Dundee	Morcellus		Kettle Point		Drift/Lake bottom	Lake/Ground level	944	LEUM	UNDERWATER	CONSUMERS 6	NSUMERS	
	REMARKS										0767	ROGI	5687	128I	1776	7/00	7017	1 1 1	100	1700			1341		1324	1321	1620	1771			1201		1078	1005	286	874	2074	72.6	540		467	372		111	42	-07	KESOURCE	GAS DEV	AS CC	3423	TOWNSHIP:
	S	2000																																											573	CCC.	חוח אינו	1 <			LAKE
	ľ	1												L																										L						HICK.	ⅎ.	75		E 155-K	EXIL
				NIL	CORED INTERVAL	CONDITION				4361-19491	100000 11011	ш						HO. 12 12 01	-							100	INTERVAL				NIL	INTERVAL				1000-1000	17609-19309	1378*-1369	INTERVAL		SPL. TRAY No .:	ABANDONED:	Ö		CONFIDENTIAL:		CO-ORDINATES:	RIG TYPE:	TAL DEPTH:		LOT
OIL GAS PRESSURE PRODUCING II	-				REC.	ST	CORIN	_		DENE	CDAL	SCHLUMBER	LOGGIN			_	* DC * HU.		1,	WEIGHT SET AT	2	_				010111010	CTAT LEV	WATER		_		NATU	INITIAL O	_				_	NAT	INITIAL G	3138	SEPTEMBE	SEPTEMBE	SEPTEMBE	SEPTEMBER	80-40-19	20-00-00		1950 P	DEBMIT N	155 CONC
NIVE NI	FINAL RESULTS				ANAL CORED INTERVAL	STORED	CORING RECORD			440*	10000	SCHLUMBERGER	LOGGING RECORD	1				HANGING		MOH	מומות סק					T	AT IEV FLOW	0000				NATURAL FLOW	INITIAL OIL RECORD					18 MCF/D	RAL FLOW	GAS RECORD	INDEX No.	21,	19,	17,	19,	€ 2			Ö		CONC: K
DEEN HOLE	ESULTS	_			REC REC				_	440'-1936' LATL	4	TERVAL		-				,		SET BEL	5						1400					API GRAVITY					700	658 PSIG	S.I. PF		. 789	77	1977	1977	1978	SEO.		573 1 + 42 1		4457	

1	GAS	-		T	Γ	_	R	DC	) V	CI	AN		Γ	_				_		_		s	ILL	IRI	AI	v	_	_	_	_	_			_	Τ	ı	DE.	vc	NI	AN	1	T	П	San		197 GEORI	_	WELL
	NS ANALYSIS	Depin	ECAMB	CAMBRIAN		20 I V E 20			TRENTON					CALARACI					AMADEL	2																RIVER	DETROIT		HAMILTON		TRI. LAMBION	Drift/L	Lake/G	Samples start at	GEOLOGICAL CONTACTS:	DRILLING CO:	D	WELL NAME: CO
	IS ON FILE	9	1945		Shadow Lake	Gull River	Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Queenston	Whirlpool	Manitoulin	Cabot Head	Grimshy	Reynoles	Irondequoit	Rochester	Gasport	Goat Island	Eramosa	ечар	A-1 unit carb.	1	A-2 min sall		a B unit salf		C unit		E unit carb	E Init shale	isian	Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus		Kattle Doint	Drift / Lake bottom	Lake/Ground level	467 #		PETROLEUM	CONSUMERS 6	NSUMERS
		REMARKS						Ī				ROST	1904	1886	1820	1764	1746		1704			1000	1 200	1368	1364	0201	130/		1264			1104	+	t	842	770		660	į	482	770	27.7	44		TOP	RESOURCE	AS C	3422
		S	2000	-								-			-			-					-											-								-	473		ELEV	., ~		LAKE ERIE
PERFORATEDYES OPEN HOLE	GAS 241 MCF/D PRESSURE A13 PS/G PRODUCING INTVL. 1760*-1808*	FINAL RESULTS			NIF	CORED INTERVAL REC. ANAL CORED INTERVAL REC. ANAL	NOI	CORING RECORD		CMPL	458*-1943* DENL 468*-1929* LATI	INTERVAL TYPE LOGGED INTERVAL	LUMPERGER	LOGGING RECORD	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 7H 1764	458 CEMENTED	51.0H 102*	WEIGHT	AND						INTERVAL STAT LEV FLOW TYPE	EA4173				INTERVAL NATURAL FLOW API GRAVITY	INITIAL OIL RECORD		_			25' 241 MCF/D 81		INITIAL GAS RECORD	SPI TRAY NO. 3075 INDEX NO. 786	247	SEPTEMBER 21.	:JAI	LONGITUDE: 80-41-36 W	THICK. LATITUDE: 42-22-30 N	RIG TYPE: ORJ ELEV. 473*+44* CO-ORDINATES:	1945* RBID 1901*	E ERIE 155-L PERMIT No.: 4458

CONSUMERS 13436 LAKE ERIE 188-8 PE CONSUMERS AS CO. UNDERNATER GAS OBV CONTACTS: 1417 ft. 42 CO-RODINATES: 417 ft. 42 CO-RODINATES: 42 CO-RODINATES: 43 CO-RODINATES: 42 CO-RODINATES: 42 CO-RODINATES: 43 CO-RODINATES: 42 CO-RODINATES: 42 CO-RODINATES: 43 CO-RODINATES: 42 CO-RODINATES: 42 CO-RODINATES: 43 CO-RODINATES: 42 CO-RODINATES: 42 CO-RODINATES: 43 CO-RODINATES: 44 CO-RODINATES: 42 CO-RODINATES: 42 CO-RODINATES: 43 CO-RODINATES: 44 CO-RODINATES: 45 CO-RODINATES: 45 CO-RODINATES: 46 CO-RODINATES: 47 CO-RODINATES: 48 CO-RODINATES: 49 CO-RODINATES: 40 CO-RODI			_	YTY	: T		RI	_	_	_	_	_	Т	TO	W	NSF	IIP	L	A K	Ε	E	RΙ					_	т:	_1	88	3	_	(	ON	CE	SSI	ON				_	_	_		_		AF	_	_	97	_	5
NSUMERS 63436 LAKE ERIE 188-BH			otal Denth S	CAMBRIAN		_	_	DO	_	ıcı	A	2		_	CATARACT					1	AMABEL	_		SI		RIA	AN	_	_		_		-		_			Т	_	1	-	_	I	PRT. LAMBTON	1	Lake/	Samples start at	EOLOGICAL CO	EOLOGY BY	PRILLING CO:	Þ	Brown 1-an
NEERVAL   STAT. LEV			2021	2	Shadow Lake	Gull River	Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Meaford Dundas	out poor	Montroutin	CODOT Head	Grimsby	Thorold	Reynales	trondequoit	Rochester	Gasport	Goat Island	Eramosa			carh	unit	carb.		B 5	0		0011	anir		Bass Islands	Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus		Kettle Point	~	Lake bottom	Ground level		ONTACTS:	PETROLEUM	UNDERWATER	CONSUMERS	NSUMERS
TOTAL DEPTH 2023 ROAL DEPTH 20		REMARKS								Ī		4 700	1090	1023	7007	8081	8281	1816		1772				1480	0101	1464	2000	1428	1407	T	1	1340	7770	7000	2001	979	20.6	822		730	4 4 5	000	316		112	H	1	-		GAS DEV	00.	AKE
20 2 2 3 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				1	. 215	CORED INTER	CONDITION			1702*-1	405*-2	9	ľ			_	-			-					1		INTERVA				1	NT	INTERN						1820*-1	INTERVA		SPL. TRAY N	ABANDONE	COMPLETED	SPUDDED:			THICK.		RIG TYPE:	TOTAL	188-B
	OIL NIL GAS 92.5 MCF/0 PRESSURE 820 PSIG PRODUCING INTVL. 1830*-	FIX	_			REC.		CORING REC		CMPL	DE N	GRA	LOMBERG	LOGGING REC		2006	1811+	405	1121	SET A	GAND						STAT. LEV.	WATER				20030	INITIAL OIL			_	_	_	_	NAT	INITIAL	3002		AUGUST	AUGUST	AUGUST	_	19-21		000	VOVE TEXAS	

				COL	JNT	Υ:	١	10 F	RF	0 L	K					TO	wns	SHIF	): N	I O R	T	H \	ΝA	LS	IN	GH/	A M	LOT	:	7.				CON	ICES	SSIC	ON:	١	/ 1				_	,	YEA	_	-	197	_		
			SP 9	Tot		0		0	RC	00	v1	CI.	AN		L					_				S	IL	UR	ΙA	N						_		_	L			01	NIA	N			0011	SEC	GEO	DRIL	WELL	COU	CLA
D.S.T. (S) ON			SPRINGVALE	Total Depth Sa	PRECAMBRIAN	AMBRIAN	RIVER	BLACK		202	100					-	CATABACT					AMABEL																RIVER	DETROIT		HAMILTON		PRT. LAMBTON	Drift/L	Lake/Ground	SECTORICAL CONTACTO	GEOLOGY BY:	DRILLING CO:	L NAME:	COUNTY: NORFOLK	CLASS: NEW
FILE			AT BASE	Samples 1470		I	Shadow Lake	Gull River		Xirk digital	Veriland	Cohous	Collingwood	Queenston	Whirlpool	Monitoulin	Cabot Head	Grimsby	Thorold	Irondequoit	Rochester	Gasport	Goat Island	Eramosa	L	A-1 unit Co		A-2 unit sc		B unit so		C unit	D unit so		Funit s		Bois Blanc	Amherstburg	Lucas	Morcanos		Kettle Point		Drift/Lake bottom	104	323	PETROLEUM	UNDERWATER	CHAVEN		
			유명	=			6	1	1	-	1	-	das	1	ļ	-		1	+	1	-			1	evap.	+		sall	anny.	olf	marker	shale	salt	carb.	shale			_	+	+	-	L	-			*			NORTH	TOW	D/POO
			BOIS BL											1447		1434	1370	1350	1330	200	1264			000	1035	1022	1018	100	020		920	892		763	684	588	521	420	61,	279				9		0	RESOURCE	GAS DEV	COMPANY	TOWNSHIP:	FIELD/POOL: NORFOLK
			BLANC	MQC:		Ī																																							674	2 t t v		<	OIL COMPANY	NORTH	FOLK
TREA				7		Ī																							T																	13702	-1		7-/-0	I	
TREATMENT:								CORED INTERVAL	CONDITION		_	_		LOGGED IN EN	LOGGING CO.: (				4000		+						365	INTERVAL		_	_	NIL	INTERVAL		•	_			N/R	INTERVAL	SPL. TRAY No.:	ED:	COMPLETED:		2	LONGITUDE	TES:		AL DEBIN.	GHAM	
FORMATION(S)	PERFORATEDYFS	PRESSURE PRODUCING	OIL					REC	STORED	CORING RECORD			O O	AL TOPE	CO. GREAT GUNS	LOGGING			A CALT HOSE	3170	SET AT	GAND						STAT. LEV.	WATER				NATURAL	INITIAL OIL		-		_	2	NATIRAL SAS	3063		OCTOBER	OCTOBER	OCTOBER	90-34-25	507°N° 41	cm -	1470 PRTD	7 CONC:	STATUS: GAS PRODUCER
RE	DYFS OF	NTVL	NIL SECOLIS					ANAL CORED INTERVAL	ED	RECORD			**************************************	LOGOED INICHANC		RECORD			COMENTED	CEMENTED	HOW SET	TUBING RECORD					S	FLOW	RECORD		_		FLOW	RECORD				_	101	FION SI	NDEX No.		21,	15, 1977	21, 1978	2 4	3 N E	.< ;	1400*		UCER
YNALES	HOLE .	1320-1332						REC ANAL					TO TO THE								REC.	-					SULPHUR	TYPE					API GRAVITY							PRESSURE	797					SEQ: 1		+ 91			

T			ग	TY:		0			K VI	CL A	N		T	OV	/NSI	HIP	: N	101	RT	H	WA	_		G H /		-	r: 		3		_	CO	NCE	SSI	NC		V I			AN	_	Τ	_	AF	_	977	¥
			Total Depth Samp	CAMBRIAN	7	BLACK			TRENTON					CATARACT		T				AMABEL												_				RIVER	DETROIT		HAMILTON		PKT. LAMBION	1	Lake/G	Samples start at	GEOLOGICAL CONTACTS:	OPER ATOR: DRILLING CO: GEOLOGY BY:	WELL NAME: CH
			Samples 1476 ft		Shadow Lake	Gull River	Coboconk	Kirkfield	Verulam	Collingwood	Meaford Dundas	Queenston	Whirlpool	Manitoulin	Cabot Head	Cimph	Thornto	Devioles	Kocnester	Gasport	Goat Island	Eramosa	Guelph	A-1 unit carb	anhy.	A-2 unit sall	carb	S B unit sall	:	C unit	D unit salt			Bass Islands	Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus	74114	Kattle Baint	Drift / Lake bottom	Lake/Ground level	320 ft.	NTACTS:	m & Z	V
		REMARKS										1443		1430	1367	6761	1201	9 2 9 9	#92T				1029	1014			954		914	988		768	684	570	553	418	400	277				9			TOP	GAS DEV	NORTH WALSINGHAM
			MQC: 7																																								679		ELEV. THICK.		
					NIL	CORED INTERVAL	CONDITION			_	10-14740	LOGGED INTER	LOGGING CO.: C			_	_	1000	+							INTERVAL				NIL	INTERVAL				_	1_	N/R	INTERVAL	07 E. 1734	SEL TRAY NO.	COMPLETED	SPUDDED:	CONFIDENTIAL:		LATITUDE:	TYPE:	
PERFORATED YES	OIL GAS PRESSURE PRODUCING I	F				REC.		CORING RECORD			GPNL	INTERVAL TYPE LO	BREAT GUNS	LOGGING RECORD			Inla		SET AL	AND						STAT LEV. FLOW	WATER RE				NATURAL FLOW	INITIAL OIL F			_			NATURAL	INITIAL GAS RECORD	4940	DECEMBER	NOVEMBER	Z	80-34-16 W	42-40-50 N	1476' PBTD 13 ROT ELEV. 1724'S: 417'E	PERMIT No.
YES OPEN HOLE	NIL N/R E 1334*-1348*	INAL RESULTS				ANAL CORED INTERVAL REC.	0	CORD			1256 -1467 DENL	LOGGED INTERVAL		ECORD			EMENTED	CEMENIE	HOW SEI	TUBING RECORD					_	FLOW TYPE	CORD				FLOW API GRAVITY	RECORD					- 1	FLOW S.I. PRESSURE		VDEY No. 799		30 , 1977				8	4590

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			Total Depth Sa	PRECAMBRIAN	CAMBRIAN	2 4 2	BLACK		1141014	TERNION					CATARACT						AMABEL																	RIVER	DETROIT		HAMILTON		PRI LAMBION	Drift/L	Lake/G	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	OPER ATOR:		COUNTY: NORF
			Samples 1490			Shadow Lake	Gull River	Coboosk	Kirkelala	Verylam	00000	Meaford Dundas	Queenston	Whirlpool	Manitoulin	Cabot Head	Grimsby	Thorold	Pondequoir	Rochester	Gasport	Goat Island	Eramosa	Guelph	A-1 unit evop	carb	A-2 unit salf	carb		B unit salt			D unit salt				Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus	Vettie Louis		Drift/Lake bottom	Lake/Ground level	330	NTACTS:	PETROLEUM	CRAVEN OIL		OLK .
		REMARKS	44.	Ī									1452		1441	1378	1361	0201	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0.27				1044	+	1030	+	973			923	T	+	774	Ť	t	512	423		284				9		ft	TOP	RESO	COMPANY	RTH WALS	TOWNSHIP: NORTH
		S	MQC: 7						-	1																															-		-	-	703		ELEV	Ltt 4	< ~	-	RTH
PERFORATED YES OPEN HOLE	PRODUCING INTVL. 1342*-1344*	OIL NIT NESULTS					CORED INTERVAL REC. ANAL CORED INTERVAL REC. ANAL	CONDITION STORED	CORING BECORD			1°-1484° GRNL 1280°-1482° DENL	L TYPE LOGGED INTERVAL	CO: GREAT GUNS	LOGGING RECORD			4 0 C to T 4 C 0 6	7.00m 20.0m 300° CEMENTED	WEIGHT SET AT	CASING AND TUBING RECORD						INTERVAL STAT. LEV. FLOW TYPE	WATER RECORD					TURAL F	INITIAL OIL RECORD						311	GAS RECORD	TRAY NO. 2358	OC TOBER	OCTOBER 22.	HAL: OCTOBER	LONGITUDE: 80-34-37 W	42-41-5	18.6	1490	PERMIT No.	SINGHAM LOT: 9 CONC: IX

	C	OUN	ITY	<b>'</b> :	N	1 O F	٩F	0	_ K					Т	OW	NS	HIE	): I	N 0	RT	Н	W	ΑL	SI	N G	НА	М	L01	Γ:	1	0			CC	ONC	ES	SIO	N:	٧	1.1						Υ	ΕA	R:	1	97	7	
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D.S.T. (S) ON	Deptin	Danet Danet		> N D D N N	RIVER	BLACK			TRENTON						CATARACT						AMABEL																		RIVER	DETROIT		HAMILTON			PRT LAMBTON	Dries / C	Displa earding	SECTOSICAL CONTACTS	GEOLOGY BY:	DRILLING CO:	D	WELL NAME: OX
ח -		MIN THE STATE			Shadow Lake	Gull River	Cobocook	Kirkfield	Verulam	Cobourg	Collingwood	Meaford-Dundas	Queenston	Whirlpool	Manitoulin	Cabot Head	Grimshy	Thorold	Reynales	rondequoit	Rochester		Goat Island	Gueibu	evap	A-1 unit carb		A-2 unit sall		Sa a unit son	0	Cunit		E unit carb.		G unit shale	Bass Islands	Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus	The same	Kettle Point	MBTON	Drift / Lake bottom		220	PETROLEUM			NEV
	REMARKS	-										+	1420		1407	1352	1 3 30	1304	1292	1	1236	1206	1142	1000	+	990			932			866	t	H	Г		598	524	389		250				1	v		- 07	RESOURCE		COMPANY	NORTH WALSINGHAM
1	S	MOC: 7				-																																								070	673	מבפע וחוכא				~ l
PERFORATED OPEN HOLE YES	FINAL RESULTS					ERVAL REC.	CONDITION STORED	CORING RECORD				*-1440* GPNL 1300*-1438* DE	LOGGED INTERVAL TYPE LOGGED INTERVAL TYPE	SNEE	LOGGING RECORD			9	4.50H 9.5H 1298* CEMENTED	TO OH ORSE CEMENTED		CASING AND TUBING RECORD				640° SULPHUR		INTERVAL STAT LEV FLOW TYPE	WATER RECORD			ZIF	AL.	INITIAL OIL RECORD					:	27' 10 MCF/D 66	INTERVAL NATURAL FLOW S.I. PRESSURE	INITIAL GAS RECORD	SPI TRAY NO. 3241 INDEX NO. 701	000000000000000000000000000000000000000	COMPLETED: OCTOBER 13, 1977	ALCONORUE TOP	NOVEMBER 13- 10	CATTOOL: 42-41-01 N	CO-ORDINATES: 1806 N: 4	POT ELEV.	L DEPTH: 1440 PATE 132	6-10-VII PERMIT No. 4558

T		107	1	T	Ţ		O F	RD	0	/10	317	AN						): V					_	_	UF	_								ONO				_		/0	NI	AN		T	T	Som		1	_	WELL	0
9		Total Depth Sa		PRECAMBRIAN		RIVER	BLACK		TRENTON						CALARACI						AMABEL																	RIVER			HAMILTON		PRT. LAMBTON		Lake/G	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	DRILLING CO:	LE NAME:	
		- 1	nini	2	Oliver Herry	COL NIVER	Coboconk	NI WILLIAM	Veruidm	Copourg	Commigwood	Medford Dundas	Queenston	Whirlpool	Manitoulin	Cabot Head	Grimsby	Thoroid	irondequoit	Rochester	Gasport	Goat island	Eramosa	Guelph	A-1 unit corp	anhy	A-2 unit salt		Sa	D	O C Unit Share	TITLE		5		Bass Islands	Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus	Nerrie Point	Kanala Daire	Drift / Lake bottom	ake/Ground level	# 06T		PETROLEUM		CRAVEN OT	VEN
		REMARKS											7362		1350	1278	1263	1049		1182				950	Chr	t		874		Т	+	770	047	+	t	475	430	336		193				0		-	TOP	RESOURCE		COMPANY	EN NORTH WATCHNEUM
		S = 4 C .	1000		+			-									1														+								+						626	202	ELEV THICK	ET .		A LINGUISTING	THE WALL
PERFORATED OPEN HOLEYES	OIL NIL 655 MCF/D 6AS 55 MCF/D PRESSURE 695 PSIG PRODUCING INTVL. 1239*-1276	FINAL RESULTS				CORED INTERVAL REC. ANAL CORED INTERVAL REC. ANAL	WI CHEC	CONING RECORD	COBING BECOME			TTATA. GUNE TOOGTATE. DENE	L THE LOGGED INTERVAL	CO. GREAT GUNS	LOGGING RECORD			1627	7.00H 20.0H 219+ CEMENTED	WEIGHT SET AT	CASING AND TUBING RECORD					650° SULPHUR	STAT. LEV. FLOW	WATER RECORD		_	22.5	NATORA	NATION STORE					6	50 * 55 MCF/D 69	INTERVAL NATURAL FLOW S.I. PRESSURE	-	NOONED:	SEPTEMBER 220	SPUDDED: AUGUST 19, 1977	TAL: OCTOBER 22+	80-32-11 W	LATITUDE: 42-41-14 N	ORDINATES: 392 N: 437 W	ELEV.	PERMIT	WC. 444

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DS T (S) ON		- 1	10	DECAMP OF A		RIVER	LACK		2010101							CATARACT					מו מו	A > B = 1																RIVER	DETROIT			HAMIL TON		PRT. LAMBTON	Drift/	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	DRILLING CO:	OPER ATOR:	COOK T. NOW OF
		o diriginal	AM		917	2 0	0	1	× .	< 0	2	Col			30	Ca	Gri	Tho	Re	Iron	Ro	Ga	Go	m o	1		,		5	ali	na	_			_	9	000	Am	Lucas	Dir	N <sub>O</sub>	П		٤	a ke		ONTA	PE		요!	
		- 1	1410		Charles and	1	Coboconk		t field	Vorillan		Collingwood	Manfard Din	Wall book	Manifoulin	Capor Head	Grimsby	Thorold	Reynales	rondequoit	Rochester	Gasport	Goat Island	Eramosa	ечар	A-1 unit carb	-	Carb.	anny	B unit salt	mc	C unit sh	D unit soll	E unit carb	F unit sh	Gual tidios	Bois Blanc	Amherstburg	0.8	Dundee	Morcellus		Kettle Point		Drift/ Lake bottom	2 0 0 0	CTS:	PETROLEUM	MITCHELL,	AVEZ	AVEN
	William College		-	1	10	1	1	1	1	1	4	0	1	ļ	1	1	1	L					4	1	do	10	Ty.	10.	No	1	marker	shale	*	6	shale	2	1	Ļ	L	L	L		Ц	4	1	11.	-		m	-	200
		REMARKS											1070	1000	TOCT	47CT	1293	1278	1269		1207	1166	1149	200	000	962		202	200		863	840		717	040	040	900	389		230					0		TOP	RESOURCE	ELGIN	OIL COMPANY	RTH WALL
			MOC														-																												000	668	ELEV				NORTH WAI STUGHAM
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					7476	CONED INTERVAL	CONDITION				_	T. T. T.	בסססבס הייוניים	9 00		-		_			SIZE WE	10					1	INTERVAL			_	NIC	INTERVAL			_	_		1284*-1302*	INTERVAL		SPL TRAY No .:	ABANDONED:	COMPLETED:	SPUDDED:	CONGIDENTIAL.	LATITUDE:	CO-ORDINATES:			GHAM B-19-VIII
PER	OIL GAS PRE	-				ממכי.		0	3	_	_		-	ďÞ	L00				9.5# 12		WEIGHT SE	63	_	_	_	_	1	CTAT					2	INT IN					21	H	TIN	3209		SEPTEMBER	200	20100	CC-11-24		ROT	1410 PAT	
PERFORATED	SSURE	<u></u>				MANAGE CO.	OIORE	240000	DING DE	_		-	-15	SNAS	COGGING R				1280 ° CE		T AT	AND TUB		_			:	TAT I EV FLOW	1				NATURAL FLOW	NITIAL OIL RECORD					112	NATURAL					ALIGUET .	W ZEL	N N	N: 475*W	ELEV	PATO.	CONC.
	95	FINAL RE				MINAL CORED IN ERVAL	7	10000	7000			012	20701-14401	2000	RECORD				CEMENTED	MENTE	MOH	TUBING RECORD					1	מאלים ו					FLOW	ECORD					MCF/D	TURAL FLOW	RECORD	NDEX No.		28, 1977	6. 19			Mag		130	7 7 7 6
OPEN HOLE	MCF/D PSIG 1280*-1304*	RESULTS				Ť	1							7000						9	SET	ORD						775					APIG						695	S.I.		794		77	77	77 354.	2		668*+ 0	1	1555
LEYES	/D 6	S.			_	NEC. ANAL			-			- CEINE		1		-					REC	I						TYDE					API GRAVITY						5 PSIG	PRESSURE	I	46,				4.					

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	lotal Depth So		CAMBRIAN		RIVE R	-1		TRENTON					CATARACT					AMADEL	200																DETROIT	I	HAMICION		PKI. LAMBION	Drift/L	Lake/G	Samples start at	GEOLOGICAL CONTACTS	DRILLING CO:	OPER ATOR:	COUNTY NUKFOLK
	Samples *	nan		Shadow Lake	Gull River	Coboconk	Xirkfield	Veruiam	Cohouro	Mediora Dundas	Queenston	Whirlpool	Manitoulin	Cabot Head	Grimsby	Reynoles	Irondequoit	Rochester	Gasport	Goat Island	Eramosa	evap	A-1 unit corb.	-	A-D mit salt	on anhy.	B unit solt		500	Dunit care		G unit shale	Bass Islands	Bois Blanc	Lucas	Dundee	Marcellus		Katela Doint	Drift/Lake bottom	Lake/Ground level	307	NTACTS:	PETROLEUM RESOURCE	CRAVEN OIL	THE R
	REMARKS										1420		1409	1344	1312	1424		1234			4040	+	Н	994	937	t		1	6 870	†	t	П	584	533	414	258				4		ft	TOP	RESOURCE	OIL COMPANY	TOWNSHIP:
		MOC: 7																											-	-				-					+	+	700		ELEV THICK.	m <		
OIL NIL GAS PRESSURE PRODUCING INTVL.  PERFORATED OPEN HOLE	FINAL RESULTS			Z	RVAL RE	CONDITION STORED	CORING RECORD	_		T1440. GUNE #5101430. DENE	L THE LOGGED INTERVAL	CO.: GREAT GUNS	LOGGING RECORD				7.00H 20.0H 288 CEMENTED	WEIGHT SET AT	AND TUBING RECORD						WATER RECORD TYPE					INTERVAL NATURAL FLOW API GRAVITY	N.T.A. O. B. B. D.				ZIF	INTERVAL NATURAL FLOW S.I. PRESSURE	П	: 3007 INDEX	ABANDONED: OCTOBER 3, 1977	SEPTEMBER	TAL: NOVEMBER 2	LONGITUDE: 80-32-44 W	LATITUDE: 4	RIG TYPE: ROT ELEV. 700*+ 9* CO-ORDINATES: 760*5:1307*E	1440 PRID	NORTH WALDINGHAM LOT: 10 CONC. VIII

_	70 C		TANDO	Y: 		O R		_		A	N	_	T	OV	VNS	SHI	P:	N C	R	TH	-	WA	_	_	I G I	-	_	от:	_	1	3	_	_	co	NC	ES	SIO	N:		)E	X V C	-N	IA	N	_		YE		_	-	77	WE	16
	POOR SAMPLE	11 12	PRECAMBRIAN	CAMBRIAN	RIVER			TRENTON						CATARACT			_			2000	200						_												RIVER R	_		HAMILTON		_	PRT. LAMBTON	Drift/L	Lake/G	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	OPER ATOR:	WELL NAME:	COON T. HOW
	GUALITY	3	AN 1445 **	0.000	Gull River	Coboconk	大irkfield	Verulam	Cobourg	Collingwood	Meaford-Dundas	Queenston	Whirlpool	Manitoulin	Cabot Head	Grimsby	Thoroid	Reynales	Irondequoit	Rochester	Gasport	Goat Island	Eramosa	Guelph	A-1 unit evap		Anhy anhy		on anny	B unit sall	narker marker	C unit	D unit salt	E unit carb	F unit shale	G unit shale	Bass islands	Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus		Kettle Point		Drift/Lake bottom	round level	250 ft.	NTACTS:		CKAVEN OIL	CKAVEN NOKT	AVEN
	CMIT ENOTA	2										1421		1410	1352	1310		1298		1244				1014		990		932				874		772	678	651	591	496	398		259					2			TOP	RESOURCE	FLGIN	NORTH WALSINGHAY	OWNSHIP.
	47.6 AT		M 0 C:																																												707		ELEV	m	4		1 -
	, DC	3	1		C	0						_	_														-		L													1	SI	Þ	CO	S	CC		THICK. L	00-	70	6-13-1X	17 17 17 17 17 17 17 17 17 17 17 17 17 1
	1004			1	ORED INTERVAL	CONDITION					1 *- 1448 *	LOGGED INTERVAL 1	LOGGING CO.: (		_		_	4.50m   9.		SIZE WEI	CA				1	1000*	DAN TO TO TO TO TO TO TO TO TO TO TO TO TO					NIL	INTERVAL							1318 - 1324 1	INTERVAL		SPL. TRAY No.:	ABANDONED:	COMPLETED:	SPUDDED:	CONFIDENTIAL:	LONGITUDE:	LATITUDE:	ORDINATES:	AL DEPTH:		EQ1.
DEBEODATED	PRESSURE PRODUCING				REC.		CORING		_	_	3	34Y	GPEAT GUNS	LOGGING		_		9.5# 13021	274+	SET AT	AND			_		_	SIAI. GEV.	WATER			_		NATURAL	INITIAL OIL		_	_		-	-	NATURAL	디	2430		SEPTEMBER	TSU9014	OCTOBER	80-33-10	84-24-24	1575'N: 482'	ROT FIELD	7	TO COINC.
	112	FINAL RESULTS			ANAL CORED INTERVAL	RED	CORING RECORD				1300 - 1446 -	LOGGED INTERVAL		RECORD				CEMENTED	CEMENTED	HOW SE	Ιm						TLOW	RECORD					AL FLOW	OIL RECORD						MCF/D	FLOW	GAS RECORD	NDEX No.		2	9,		¥	Z	3,28		1244	
OPEN HOLE YES	MCF/D	SULTS			AL REC	1					446 DENL	RVAL TYPE								ET REU	ORD				0.12	CAL T	HARAGE TELE	4					API GRAVITY								S.I. PRESSURE		778		7	7	7	SEO: 1			707*+ 2*	12	

		1010		0		0	RD	ov	/10	21/	AN												SI	LUF	21 /	N										DI	ΕV	10	NIA			T	Odn	950	GEO	DRIL	WELL	COU
		Total Depth Samples	PRECAMBRIAN	AMBRIAN	X (< p x	BLACK		TRENTON						CATARACT	2					AMABEL																RIVER			HAMILTON		PRT. LAMBTON	Drift/L	Samples start at	GEOLOGICAL CONTACTS	GEOLOGY BY:	DRILLING CO:	L NAME:	COUNTY: NORFOLK
		4.2 h.T	100		Shadow Lake	Gull River	71171010	Verulam	Cobourg	Commigwood	Meatord Dundas	Queenston	Whirlpool	Manitoulin	Cabot Head	Grimsby	Thorold	Reynales	)rondequoit	Rochester	Goat Island	Eramosa		A-1 unit evap	anny	A-2 unit salt	carb	B unit salt	a C Unit Shore		S I			Bass Islands	Bois Blanc	Amherethura	Dundee	Morcellus		Kettle Point		Drift/Lake bottom		237	LEUM	MITCHELL I	AVEN	
		REMARKS				-					00	TATO		1398	1341	1314	1299	1286	900	1074			1002	200	Ť		924	-	884	T	t	9000	t	П	540	380	240			I		2	-	107	R	ELGIN	NORTH WALSINGHAM 6-13-X	TOWNSHIP:
		S M CC.																												-					-	1		L					719	ELEV.		-	INGHAM	1407.61
					NIC	CORED INTERVAL	200				1,5747-11	LOGGED INT	103					_	3	3712						INTERVAL			NIC	INTERVAL						***************************************	1 XOCO = 1 X		SPL. TRAY No .:	ABANDONED	COMPLETED:	SPUDDED:	CONFIDENTIAL	I ONGITUDE	١,	RIG TYPE:		WALDENOUNE FOR
PERFORATED	OIL N GAS PRESSURE 6: PRODUCING INTVL	FINA		_		P.	STORED NECONO	COBING BECO		_	GHNL	L IAAF L	CO. GREAT GUNS	LOGGING RECORD			F 0	1229	260	WEIGHT SET AT COMM	2		_			L STAT. LEV. FLOW	WATER R			AL NATURAL FLOW	NIT					04 200	NATURA	INITIAL GAS	3244		DECEMBER	NOVEMBER 24.	JANIARY		1514 N	ROT ELEV.	PERMIT	: IS CONC: X
OBEN HOLE	NIL 64 MCF/D 620 PSIG VL. 1309*-1314*	FINAL RESULTS				INTERVAL REC ANAL	ONC.				1584 -1458 DENT	1		ORD			7	DACKER	1	HOW SET REL	0000					JW TYPE				OW API GRAVIIT	7					020 020	S.I. PE		NDEX No. 807			1977				7191+ 21	4592	

		_	INTY	:	N O	RF	0 L	K				_	ΤΟ	VNS	SHII	P: N	101	RT	Н	WA	LS	IN	G H	ΑM	LC	т:	1	4			CC	ONC	ES	SIO	N:	X						,	_	AR:		97		- 1
	CRITICAL MI POOR SAMPLE	Total Depth Samples	PRECAMBRIAN		RIVER	_		TRENTON	CI	AN	T		CALARACI				1	_	AMABEL			SI	LU	RI	AN	_			_		_					DI CITI ROLL	-	_	HAMILTON	-	PRT. LAMBTON	Drift/L	Lake/C	Samples start of	GEOLOGY BY:	DRILLING CO:	7	WELL NAME: CR
	CRITICAL MISSING SAMPLES	imples 1430 ft	N	Shadow Lake	Gull River	Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Queenston	Whirlpool	Manitoulin	Cabot Head	Grimsby	Thorold	Revogles	Top de proje	Gasport	Goat Island	Eramosa	Guelph	A-1 unit evap		A-2 unit salt	carb.	Sa	0	C unit			F unit shale		Bass Islands	Bois Blanc	Amherethuro	Dundee	Marcenus		Kettle Point		Drift/Lake bottom		300 ft	E OM	_ ~	CRAVEN OIL	AVEN-UN
	ES	RFMARKS									1402		1388	1330	1304	1292	1080	C224	n n			990		973		915		Г	850	000	730	650	624	560	513	374	202	2				9		ŀ	KESOUKCE	GAS DEV	COMPANY	- 1
		MQC:							1										1																1								712	1111000	ELEV THICK			WALSINGHAM 6-14-X
				NT.	CORED INTERVAL	CONDITION				T. T. T. T.	LOGGED INTERV	LOGGING CO.: GREAT				_	ב הספור הספור	+	-						INTERVAL				NIC	INTERVAL						10000-100	1000 KINDERVAL		SPL. TRAY No .:	ABANDONED:	COMPLETED:	SPUDDED:	CONFIDENTIAL:	LONGITUDE:	CO-ORDINATES:		Ĭ.	1
DE BEODATED VEC	OIL N GAS 3 PRESSURE 66	-			REC.		CORING RECORD			GXZ	L TYPE LO	GUNS	LOGGING RECORD			* 600	2 7 7 7 7	7 - 3C	OFT A		_	_			STAT. LEV. F	70				NATURAL FLOW	INITIAL OIL RECORD					70.	NATURAL	INITIAL GAS RECORD	2297 INI		DECEMBER		≺II	80-33-17 w	10	ROT ELEV.	1430 PB.T.D.	1
VE - 0050 HOLE	NIL 33 MCF/D 660 PSIG 11TVL 1293-1296	NAI BESILTS			ANAL CORED INTERVAL REC		CORD			12041410. DENT	-		CORD				CHARACTER	חסיי סבי	TODING RECORD						FLOW TYPE	CORD				FLOW API GRAVITY	1					111110 000 1310	N S.I. PF	ll"	NDEX No. 806		7, 1977		7, 1978	SEO:	50	712*+ 9	13340	4601

_			_	NTY	:	N	0 R	F	L	<				ī	OW	/NS	HIF	): M	0 R	TI	H 1	WΑ	LS	I N	G H	AM	LO	r:		15		_	co	NCE	ESS	ION	:	Х				_	_	-	AR	_	197		- 1	<u> </u>
	NO SAMPLES	Capin	Total Depth	PRECAMBRIAN	0 4 5 5 6	RIVER	O BLACK	T	OTRENTON			N			CATARACT		T		I		AMABEL			SIL	UR	RI A	N		_	_	arrani di						_	DETROIT	V	HAMILTON	_	PRI. LAMBION	Drift	Lake	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	<b>D</b>		COUNTY NORFO
	156	Comprae	Samoles	RAN		Shadow Lake	Gull River	7 TATION	_	-	Collingwood	Meaford Dundas	Queenston	Whirlpool	_		Grimsby	Thoroid	Irondequoir	Kochester	Gasport	Goat Island	Eramosa	Guelph	A-1 unit care	anhy	A-2 unit sall	carb	-	e B unit salt	C unit				G unit shale	Bois Bianc	Amherstburg	Lucas	Dundee	Marcellus	4	Satella Doing	Drift/Lake bottom	Lake/Ground level		CONTACTS:	C. PETROLEUM	CRAVEN OI	CRAVEN-UN	Ę
		REMARKS	1		+			+				00													0 0	4		0	×	7 797	/0		0.	10	/6				226		+		9	H		TOP	RESOURCE	CRAVEN OIL COMPANY	ION NORTH W	TOWNSHIP: NO
		1 1	MOC: 4	1		00000	CORED INTERVAL	2000					LOGGED	LOGGING						21ZE	2140						INTE				2	INI						2	INTE		SPL TRA	ABANDONFO:	SPUBBED:	685 CONFIDENTIAL		ELEV. THICK. LATITUDE	RIG TYPE:	TOTAL DEPTH:	WALSINGHAM 8-15-X	RTH WALSINGHAM
PERFORATED	OIL NI GAS NI PRESSURE PRODUCING INTVL	FINAL			ř	7100	D Fi	STORED STORED	COBING BECC	_	_	NIF	INTERVAL TYPE LOGG		LOGGING RECORD	_				WEIGHT SET AT	O AN						NTERVAL STAT. LEV. FLOW	WATER RECO			NIC	AL NATURAL	INITIAL OIL F					NIL		INITIAL GAS		NED: DECEMBER 22	DECEMBER	AL: JANUARY	80-32-36	42-43-4	TES: 772'N: 379'W	: 276*	PERMIT No.	LOT: 15 CONC: X
OPEN HOLE	NIL VL. 1268*-1271*	AL RESULTS				1110	FRVAI	0.10	100				LOGGED INTERVAL TYPE		ORD					חטא פבו מבנ.	CORD						OW TYPE	ORD				FLOW API GRAVITY	1						FLOW S.I. PRESSURE	CORD	×Ι	1977		1978			2 0000 *4 4.		4608	

	NO	_	NUN.	П	- '	O		001	_	217	N			-	FV 110.	OH)	_	NU	K	IH	-	√A I	_	N	_				 5	_	_	_	-	NU	ESS	SIO	rų.		_	/0	NI	AN	2	T	T	1	R:	_	19	_	×	0
	0 SAMPLES	total Depth Sa		CAMBRIAN	X   < F X	BLACK		I KIN ON	1					CALANACI	1					AMABEL	200																	70 I	TIONT		HAMILTON		TAI. LAMBION	DET   AMETON	Drift	oundes sidir di	or o or other or	REOLOGIC CONTACTS	DRILLING CO:		WELL NAME:	
		odmpies III.	AN		Shadow Lake	Gull River	Cohone	Kirkfield	Cobourg	Collingwood	Meaford Dundas	Queenston	Whirlpool	Manifoulin	Cabot Head	Grimsby	Thorold	Reynales	irondequoit	Rochester	Gasport	Goat Island	Eramosa	Gueloh	A-1 unit cara	anhy	A-2 unit salt	carb	B unit salt	0 0000		Siè			G unit shale	Bass Islands	Bois Blanc	Amhersthurg	Lucos	Dundee	Marcellus	70111			Drift / Loke hottom	ound level		NTACTS.	ONCERWATER GAS DEV	CHAVEN OIL	AVEN-UZ	414001-116
		REMARKS										1375		1362	1304	1278	1264	1250		1190				967	046	0216		888		848	AVA AVA		704	626	602	548	516	354		217					٥	287	-	דטטייטר דו די	GAS DEV	COMPANY	NORTH	
PRESSURE PRODUCING INTVL.  PERFORATED YES, OPEN HOLE		FINAL RESULTS			NIC	CORED INTERVAL REC. ANAL CORED INTERVAL REC. ANAL		CORING RECORD			1°-1386°   GRNL   1210°-1340°   DENL	L TYPE LOGGED INTERVAL	AT GUNS	LOGGING RECORD				9.5#	17.0# 266 CEMENTED	SIZE WEIGHT SET AT HOW SET REC	CASING AND TUBING RECORD						INTERVAL STAT. LEV. FLOW TYPE	WATER RECORD		- P			INITIAL OIL RECORD							INTERVAL NATURAL FLOW S.I. PRESSURE	OFT. TRAT NO.		OEC: WOEK	DECEMBED SO.	DECEMBER 20.	AL: 1984 184 1848	ONGITUDE	-	RIG TYPE: 784 NI 379 W	1395* RB.T.D. 1386*	NO.	00000

	PCF	P	Tot		T	c	R	DC	VI	CI	AI	N			_									SI	LL	IRI	AP	1									I		DE	v	N	IAI	_	I		EAI				WELL	COU
	CRITICAL MI POOR SAMPLE	OR AGREE	Total Depth Sc	PRECAMBRIAN	200	RIVER	2		TRENTON						CATARACT						AMABEL																	RIVER	DETROIT		HAMILTON		The Control of	PRT   AMRTON	Driff	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	-	NAME	COUNTY: NORFOLK
	E QUALITY	POOR AGREEMENT BETWEEN L	les 1390	Z	OUGGOOM LOVE	Gull River	Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Meaford Dundas	Queenston	Whirlpool	Manifoulin	Cohot Hand	Grimeho	Thoroid	Pavacias	Nochesiar	Dochasta	Goat Island	Eramosa	Gueiph	екар	A-1 unit corb.	-	A-S unit sall		a B unit salt		C unit	unit		F unit shale	Gunit shale	Bos Blanc	Amherstburg	Lucas	Dundee	Marcellus		Kettle Point	die conon	Drift / Loke bottom	Cound level	240	PETROLEUM	CRAVEN OIL	AVEN-UN	
	PLES	00	11									+	1357		1343	10000	1060	1005	1020	2110	1175			948	1	928		0/0	+		830	П			1	†	202	348		196				1	٥		TOP	RESOURCE	COMPANY	ION NORTH	TOWNSHIP: NO
		AND SAMPLES	MQC:		1															-																									-	677	ELEV THICK			- 1	NORTH
PERFORATED OPEN HOLE	GAS N/P PRESSURE PRODUCING INTVL.	OIL NIL	3		22 7	CORED INTERVAL REC. ANAL CORED INTERVAL REC. ANAL	CONDITION STORED	CORING RECORD				9-13879 GRNL	파	LOGGING CO.: GREAT GUNS	LOGGING RECORD			4.00E FOLIAT CERCNIEL	CO. 50 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	THE SELECT OF SELECT OF SELECT	WEIGHT	CASING AND TIBING BECORD	_					INTERVAL STAT LEV FLOW TYPE	EA-1170				TURAL	INITIAL OIL RECORD			_	_	N/R	INTERVAL NATURAL FLOW S.I. PRESSURE	INITIAL GAS RECORD	SPL. TRAY No.: 3304 INDEX No. 805		COMPLETED: DECEMBER 17, 1977	DECEMBER 10.	17.	LATITUDE: 42-43-33 N	CO-ORDINATES: 712'N: 355'W	: 1392* RBTD. 1290*	No.	_SINGHAM LOT: 16 CONC: X

			킹	T	T	-	R	Б	- > V	10	1 12	N	_		_		_		-				_	_	LUI		LO		7	_	_		_		CES		Γ	_	_	/0	NI	AN		T	T	Sor	GE	GE	DR	0 1	
			Total Depth So	PRECAMBRIAN		RIVER	DI ACK		TRENTON						CATARACT						AMABEL																	RIVER	DETROIT		HAMILTON		PRI. LAMBION	Dritt?	Lake/C	Samples start at 3	GEOLOGICAL CONTACTS:	GEOLOGY BY:	DRILLING CO:	OPER ATOR:	
			Samples 1470 ft.	P	CHOCON CONG	Gull River	Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Meaford Dundas	Queenston	Whirlpool	Manitoulin	Cabot Head	Grimshy	Thorold	Revoolee	Topode all all	Gasport	Goat Island	Eramosa		A-1 unit evap	carb.	A-2 unit sall	carb.		B unit solt	0 01111		Dunit salt	T UIII 3/10/6			Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus	Nerrie Point		Critty Lake bottom	ground level	350 ft.	ONTACTS:	EUM	UNDERWATER	CRAVEN	CHAVEN SO
		REMARKS											1460	1457	1442	1390	7772.6	4 4 4 4	1221	4177	900			1036				967			826	899	114	406	673	600	552	044		300				9			TOP	m	GAS DEV		
		1	MQC: 7	-																						-															-	-		-	040	2112	ELEV   TI		<	Υ!	WALSINGHAM 3-7-IV
DEBEOBATED OPEN HOLE	OIL NIL GAS GAS GAS PRESSURE N/R PRODUCING INTVL.	FINAL RESULTS				CORED INTERVAL REC. ANAL CORED INTERVAL REC ANAL	CONDITION STORED	CORING RECORD				1°-1446°   GRNL   1300°-1444°   DENL	LOGGED INTERVAL TYPE LOGGED INTERVAL TYPE	CO.: GREAT GUNS	LOGGING RECORD			ADZAT HC.	CONTRACTOR CONTRACTOR	WEIGHT SET AT	CASING AND TUBING RECORD					SOFTEROR	RVAL STAT. ILEV. FLOW						INTERVAL NATURAL FLOW API GRAVITY							INTERVAL NATURAL FLOW S.I. PRESSURE	ı	NOONED:		OCTOBER 11.	TAL: OCTOBER	80-35-05 W	42-58-46 N	CO-ORDINATES: 1767'S	ROT ELEV.	DTAL DEPTH: 1480 * BB.T.D. 140	

T			SP.	Tot		T		01	RD	01	/10	21/	N											LS	_		ti A	_			_				ONC				_	_	/0	NI.	AN		T	Γ	Som	_	97 GEO	OP	WELL	cou
DO T (0) ON FILE			SPRINGVALE	Total Depth Samples	PRECAMBRIAN	AMBR DIAZ	RIVER	BLACK		TRENTON						CATARACT					1	AMARE																	RIVER			HAMILTON		PRT. LAMBTON	Drift/L	Lake/G	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	OPER ATOR:	LL NAME:	COUNTY: NORFOLK
			AT BASE OF	1380		-	Shadow Lake	Gull River	7.7.4.6.0	Veruiam	Copourg	Collingwood	Meaford-Dundas	Queenston	Whirlpool	Manifoulin	Cabot Head	noroid	Reyndles	Irondequoit	Rochester	Gasport	Goat Island	Eramosa		A-1 unit care	anhy	A-2 unit salt	carb	Sa	D	Cunit	D unit sall		F unit shale		Bass Islands	Bois Blanc	Amherstburg	Lucas	Dundee	Morcellus	Kerrie Point		ake bottom	Lake/Ground level	300 ft		PETROLEUM		AVEN	
			BOIS	ft.		+		1		+				1368		1354	1290	1267	147		1184				953	146	t	Н	882			010	Ť	t	ľ	T	T	480	340		222				9	>	F.	TOP	RESOURCE	DAM DEV	JTH WALS	TOWNSHIP: SO
			BLANC	MQC: 7		+	1	+	+	+			-				+									+															+					0220		ELEV THICK.			NGHAM 3-	SOUTH W
PERFORATED OPEN HOLE	¥TVL.	GAS N/R PRESSURE	OIL NIL NIL				N	CORED INTERVAL REC ANAL CORED INTERVAL REC ANAL	000	COBING BECORD	_		1*-1381*   GRNL   1230*-1379*   DENL	L TYPE L	CO: GREAT GUNS	LOGGING RECORD			1045	7.00m   20.0#   253°   CEMENTED	WEIGHT SET AT	CASING AND TUBING RECORD						INTERVAL STAT. LEV. FLOW TYPE	WATER RECORD			210	INICHARL NATIONAL PLON	NATIBAL SION							INTERVAL NATURAL FLOW S.I. PRESSURE	GAS BECORD	NOONED:	OCTOBER 100	OCTOBER	TAL: NOVEMBER 10.	80-31-46 W	LATITUDE: 42-41-01 N	s: 1585*S: 382*E	BOT *	PERMIT No.:	13 CONC: VI

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UNIT EQUIV	total Debin Sampras	THE CHIEF STATE	CAMBRIAN		RIVER	BLACK		KENION						3	`ATABACT					1	AMARFI				_													RIVER	DETROIT		HAMILTON		PRI. LAMBION	Dritt/L	Lake/G	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	DRILLING CO:	D A NAME	
IV 790 B		010		Shadow Lake	Gull Kiver	Coboconk	ZITATICIO	Veruiom	Cobourg	Collingwood	Meatord Dundas	Queenston	Whirlpool	Manitoulin	Cabot Head	Grimsby	Thorold	Reynales	Irondequoit	Rochester	Gasport	Goat Island	Eramosa		A-1 unit	0,	A-2 unit se	2		B unit s	0					Bass Islands	Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus	Kerrie Point		Drift/ Lake bottom	Lake/Ground level	172	NTACTS:	PETROLEUM RESOURCE	HUSE, MURRAY		SEBNO
UNIT	REMARKS		+	e		-		+	+	1	308	-												+	erap 9	+	t			salt		2000	-	ľ	†				2	_	+	+	-	-		12	TOP	JM RESO	JRRAY	011 000	NO. 3 DEREHAM
AINBE	A R	L	1	ļ	ļ	L	L	1	1	1	1	L	L			L	L		L	L				903	202	7 0	3	834	830		000	3	654	56	62	462	384	288	212	173	1	1	1	~			D	URCE	1	170	HIGH
V 824	0	2000		L																																									789	4	ELEV.				M 5-24-X
		1																																													THICK.		. ~		X
				עזר	CORED INTERVAL	CONDITION					JIN	LOGGED INTERVAL	100			_			n		CA				603	1/6	INTERVAL				245	TWA US INC	INTERVAL						906*- 910*	INTERVAL	OFF. INAT NO.	ABANDONED:			AL			CO-ORDINATES:	RIG TYPE:		
OIL GAS PRESSURE PRODUCING II	-				REC.		CORIN	_	_	_	_	AL TYPE		LOGGIN					OH 173*		67				40.	0	STAT. LEV.	WATE		_		I MAI	INITIAL OIL P	L	_				-	NATURAL		2882	MAK	FEBRUARY	APR	80-51-1	42-50-59	3841 *5: 944 *E	CAB	PERMIT	DEDMIT NO
OIL NIL GAS 50 PRESSURE 355 PRODUCING INTVL.	FINAL				ANAL CORED INTERVAL	STORED	CORING RECORD					-		LOGGING RECORD			CEMENT	BAREFO	CASING SHOE	T HOW	AND TUBING RECORD						/ FLOW	20				720	IL RECORD						50 MCF/D	JRAL FLOW	L GAS RECORD	200	11,	17,	11,	*	Z	34446	T T C	200	5
50 MCF/D 355 PSIG L. 906*- 910*	FINAL RESULTS				TERVAL REC	1		-				LOGGED INTERVAL TYPE		D			TED	707	-	N SET REC	ECORD				טטנדהת	SULPHUR	TYPE	0				AFI GRAVIII	۸						0 355 PSIG	S	RD COU		1977	1977	1977	SEQ: 1			7991+ 21	4000	4.330

Т	0	_		ITY	Ī	_	X F	_	-	/10	CI	AN		Τ	10	AA I	4SH	IIP:		DE	RE	H/	A M	s	311	LUI	R1 /			2	5		_	014	-	Sic		ΧI	ΕV	01	NIA	AN			_	AR	_	97 GEC	-	WELL	000
	UNIT EQUIV	rordi Depri Samples	TRECAMONIAN	CAMBRIAN		RIVER	BLACK		TRENTON							CATARACT					1000	200																RIVER	DI TOOT		HAMILTON		PRT. LAMBTON	Drift/L	Lake/G	Samples start at	GEOLOGICAL CONTACTS:	LOGY BY:	DRILLING CO.	LL NAME:	COUNTY, ON ONE
	<b>75</b> 5 B	1	dus	2	Shadow Lake	Gull Kiver	Coboconk	KITKTIGIO	Veruiam	Copourg		Colling wood	a de de la constante de la con	Whiripool	Monitoulin	Cabot Head	Grimsby	Thorold	Reynales	Irondequoit	Rochester	Gasport	Goat Island	Eramosa		A-1 unit evap	Const	A-2 unit sall	carb.	onhy.	B unit salt	unii	Dunit salt		unit	islan	Bois Blanc	Amherstburg	Dunded	Morcellus		Kettle Point		Drift/Lake bottom	Lake/Ground level	171 ft	NTACTS:	PETROLEUM RESOURCE	ROSE, MURRAY		12000
	UNIT EQUIV	REMARKS																						0,0	895	894	242		804			763	000	553	532	480	406	307	200	171				2			TOP	RESOURCE	-	מפי ביות	- CWINGSIT
	IV 785	3	MOC: 7									1																				-											-		790		ELEV. THICK			1 0 1 C U I V	ш
		_	_		N L	XVAL	CN						-	LOGGING CO.			•75¤			п	1	CASIN				9101	3500	RVAL				NI.	INTERVAL			L		908"- 910"	מת מת מת מת מת מת מת מת מת מת מת מת מת מ		SPL TRAY No : 2				AL:	LONGITUDE: 80	LATITUDE:	ORDINATES:	BIG TYPE: CAB	יייייייייייייייייייייייייייייייייייייי	
PERFORATED OP	OIL NIL GAS 300 PRESSURE 350 PRODUCING INTVL.	FINAL RESULTS				MEC. ANAL CORED INTERVAL	010	CORING RECORD	2000				100000	TYPE I DOGGED INT	LOGGING RECORD		9104	BA4 CASING	190 BAREFOO	171 CASING	SET AT HOW	AND TUBING RE		_			n d	TAT. LEV. FLOW	WATER RECORD				NATURAL FLOW	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				300 MCF/D	WHOM TOW	INITIAL GAS RECOND			10,		10,	¥	42-50-55 N	51°W	ET C	DERMIT NO.	10.
OPEN HOLEYES	MCF/D PSIG 910*- 911*	SULTS				VAL REC ANAL			-				+	INTERVAL TYPE				SHOE	190	SHOF	SET REC.	ORD				SULPHUR	77000	TOPE					API GRAVITY					350 PS16	0	adiosadd is	202		77	77	77	SEQ: 1			790 0 + 20	120	3

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		Total Depth S	PRECAMBRIAN		RIVER	O BLACK	RDI	TRENTON	IC		N		_	CATARACT					AMABEL			S		RI	AN											RIVER	DETROIT		HAMILTON	_	TRI. LAMBION	UPIT . ALIGNO	Lake/	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	DRILLING CO.	WELL NAME:	COUNTY: UXFURD
		Samples 933 ft	AZ	Suddow Lake	GOII XIVET	Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Meaford Dundas	Queenston	Whirlpool	Cabor Head	Grimsby	Thoroid	Reynales	Irondequoit	Rochester	Gasport	Goat Island	Framosa	емар	A-1 init carb	anhy			B unit salt			D unit sall			Bass Islands	Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus		Kettle Point	Lake porrorn	Lake/Ground level	TRI W		EUM	ROSE MURRA	MOYI OF	200
	REMARKS	*																				216		898	893	909	835	П	1	752	000	T	T	490	385	280	244	181					3		708	RESOURCE		COLLEGAM	II &
		MQC: 7																																									110	766	ELEV TH	m	C	AW 0-20-X11	10
				1 2 -	CORED INTERVAL						NIC	LOGGED INTERVAL	LOGGING CO.:				8.63m 24.0m		SIZE WEI	CA	1	1	934 *	292*	182	INTERVAL				NIC	INTERVAL			L	Ш		9221	INTERVAL		SPL TRAY No.	ABANDONED:	ONE STED.	CONFIDENTIAL.	LONGITUDE:	THICK. LATITUDE:	CO-ORDINATES:	RIG TYPE:		LOT:
PRESSURE PRODUCING INTVL.	FINAL				L REC. ANAL CORED IN ERVAL	חח	CORING RECORD		_		_	TYPE LOGGED	1000000			868	OH 190 CEMENTED	181 *		AND				251	35 0	WATER RECORD					NATURAL FLOW	2					10 MCF/D	NATURAL FLOW	INITIAL GAS RECO	NDEX	0 7		200	>		M.E94 :N.994	CAB ELEV.	PERMIT No.:	CONC: XII
L SHOW	RESULTS				ERVAL REC. ANAL	070				_		INTERVAL TYPE		-		TED	TED		V SET REC	RECORD	_		SULPHUR	SULPHUR	FRESH					+	API GRAVITY	5_				_	37	S.I. PRESSURE	1	No. 204	1977	1977	1,61	SEQ: I		1	776*+ 2*	4405	

	Tota	ORD	OVICIAN				SI	LURIAN	N		DEVONIAN	Sam	WELL
	CAMBRIAN PRECAMBRIAN Total Depth Samp	BLACK	TRENTON	CATARACT		AMABEL					HAMILTON DETROIT RIVER	GEOLOGY BY: PC INC. GEOLOGICAL CONTACTS: Samples start at Samples start at Drift/Lake/Ground leve Drift/Lake botton	NO DE
	les 800	Coboconk Gull River Shadow Lake	Meaford Dundas Collingwood Cobourg Verulam	Monitoulin Whiripool	Thorold Grimsby	Gasport Rochester Irondequoit	Guelph	unit I	S B unit sall	G unit F unit E unit C unit		CAY: PEIROLEOF  CAL CONTACTS:  Cart at 315 ft  Lake/Ground level  Drift/Lake bottom  MRTON	CONSUMERS CONSUMERS UNDERWATE
	REMARKS			697	610	518 574	360		3	141		TOP TOP	GAS CO.
	MQC: 7											ELEV THICK	TOWNSHIP: HUMBERSTONE TO  ASS CO.  R GAS DEV  R GAS DEV  R GAS DEV
OIL GAS PRE		CONDITION  CORED INTERVAL REC.		CO: GRE	11.6#	CASING WEIGHT		309* 75*	9	INTERVAL NA	: 242 INITI	CONFIDENTIAL: SPUDDED: COMPLETED:	TAL DEPTH:
SSURE	FINAL RESULTS	STORED  STORED INTERVAL  C. ANAL CORED INTERVAL	GRNL LOSGED INTERVAL	GUNS		AND TUBING RECORD SET AT HOW SET 306 CEMENTED		FRESH	WATER RECORD	NATURAL FLOW API GRAVITY	RECO	79-10-14 W SEC: NOVEMBER 25, 1978 NOVEMBER 25, 1977 NOVEMBER 25, 1977	AIT No.: 4585 PRID. EEV. 501*+

	_	TNUC	Υ: Π	W		_	ANI	-		. 81		1	rov	VNS	HIF	);	Нι	IMI	B E	RS	_	SIL		21.6	_	т:	-	0		_	COI	VCE	SSII	ON:	_	-		NI.	A NI		Т	_	_	19		) <b>*</b>	=
	rolat bebitt		CAMBRIAN	RIVER	BLACK	T	TRENTON		T				CATARACT						AMABEL			311		X1 M				_		_		-				DETROIT	T	HAMILTON	AN	PRT. LAMBTON	Drift/L	Lake/C	Samples start at	GEOLOGY BY: PETRO	DRILLING CO:	WELL NAME:	WELL SIAME: CO
		AND AND S		Shadow Lake	Coboconk	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Veruiam	Cobourg	Collingwood	Meaford-Dundas	Queenston	Whirlpool	Manitoulin	Cabot Head	Grimsby	Thorold	Revocies	Rochester	Gasport	Goat Island	Eramosa ·	Guelph	A-1 unit evap	anhy	A-2 unit sall		Sal Bunit Soll		C unit	D unit sall		F unit shale	Bass Islands	Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus	Kettle Point		Drift / Lake bottom		330 ft.	PETROLEUM P	UNDERWATER GAS DEV	CONSTINERS	NOTIMERO
	REMARKS	2									714	697		679	610	200	592	210		0114	370	283				228		178			62												1	RESOURCE F	GAS DEV	SAS CO	STOOS HIMPERSTONE
		MOC: 7												-		-																										593	L	ELEV THICK			- 1
				NIL	CONDITION			_		11- 772	LOGGED INTERVAL T	LOGGING CO.: (			_		7.00m 20	+			_		300.	ì	INTERVAL				NIL	INTERVAL				-	_	NIL	INTERVAL	SPL. TRAY No :	ABANDONED:	COMPLETED:	SPUDDED:	AL:		ORDINATES:	RIG TYPE:	10=4	0
OIL GAS PRESSURE PRODUCING IN	FIZ			7.00	0 0	CORING MECOND	CODING BE		_	GRNL	YPE	GREAT GUNS	LOGGING RECORD			1761	20.0# 283* CE	SET AT	AND			_		70*	STAT. LEV. FLOW	WATER REG				TURA	INITIAL OIL RI	_		_		3	NATURAL	INITIAL GAS RECORD	2 2 2 2	NOVEMBER 19,			79-10-22 W	635 N: 190 E	ROT ELEV.	PERMIT No.:	3
OIL NIL GAS NIL PRESSURE PRODUCING INTVL.	AL RESULTS			MANUAL CONTROL INCOME	TO MICE	CAC	ÓB				LOGGED INTERVAL		CORD			CEMENTEL	CEMENTED	HOW SET	m				SOLISHOR	FRESH		ORD			-	FLOW API GRAVITY	RECORD						FLOW SI PRESSURE	ECORD IN				1978	SEQ:	36	593++ 6	6864	1

		100	1	0	I	c	R	DО	VΙ	CI	AN											s	LÜ	RI	ΑN	1							I	t	DE \	/0	NIA			I	Som	GEO	GEO	OPER	COU
		Depin		PRECAMBRIAN		RIVER	DI ACK		TRENTON					CATARACT					AMAGEL	A A A A A A A A A A A A A A A A A A A														RIVER	DETROIT		HAMILTON		PRT. LAMBTON	Drift/Lake	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	OPER ATOR:	112
		0000	700	2	Shadow Lake		Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Queenston	Whirlpool	Monitoulin	Cabot Head	Grimshy	Reynales	Irondequoit	Rochester	Gasport	Goat Island	Guelph	A unit evap		anhy		B unit salt			D unit carb	unit	Gunit shale	Bois Blanc	Amherstburg	Lucas	Dinde	Marcallina	Kettle Point		Drift / Lake bottom	round level	NTACTS:	PETROLEUM F	CONSUMERS	CONSUMER
			2		100						9	91/	693		675	607	577	568	512		432	340	Н	0.	hy	222	11	Š	a/e 137	10	Ì	ole								7	12	TOP	M RESOURCE	GAS CC	33003
		:	Mon: 7																													+								-	591	ELEV. THICK	m <		HUMBERSTONE II
			1		NTC.	CORED INTERVAL	CONDITION				1.1	LOGGED INTERVAL	CO		_	_	4.50m 11		SIZE WE	7.0				302*	671	INTERVAL			Z	INTERVAL		1			NIL	INTERVAL	SPL. TRAY No.:	ABANDONED:	COMPLETED:	SPUDDED:	CONFIDENTIAL:	Ŀ	CO-ORDINATES:	TOTA	TI-V LOI:
	OIL GAS PRESSURE PRODUCING IN	T-7			_	REC.	STORED	CORING REC	_		de de	TYPE	AT GUNS	LOGGING RE			7921	20.0H 276" CEN	WEIGHT SET AT	CASING AND TUBIR		_			0 M. L.C.Y.	Z				NATURAL SE		_		_		NATURAL F	2947 INDEX No.		-		NOVEMBER 11.		1100 N: 190 W	*	DEBMIT NO.
1	NIL NIL	FINAL RESULTS				ANAL CORED INTERVAL REC.		ORD				LOGGED INTERVAL		RECORD			MENTED	CEMENTED	HOW SET REC	TUBING RECORD			1	SULPHUR	FRESH	-				FLOW API GRAVITY					0	RECORD ST PRESSURE	DEX No. 185			9, 1977	- 1	0000	Ma AsThe		1824

		_	OUN	TY:		W E	L	L A	NI	)	_		_		101	VN:	SHI	P:	ŀ	IUI	ΜВ	ER	S	0	ΝE			LO1	г:		1	1		СО	NCE	SS	ION	l: 1	V		_		_	_	_	YE	_	_	_	77	-	Te
		ordi page so		CAMBRIAN		71 1	BI ACK	D	TRENTON	-	1 4	N			CALARACI	1					AMADEL			5	II L	UR	IA	N	_	_	_			_	_		-	スマガス	0	V	_	NOT TON	_	PRT. LAMBTON	Drift/L	Lake/Ground level	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	OPER ATOR:	WELL NAME:	COON TY. WELLENSON
		Squibtas 4 50 H.	790		Shadow Lake	Gull River	Coboconk	Kirkfield	Verulom	Cobourg	Collingwood	Meaford-Dundas	Queenston	Whirlpool	Manitoulin	Cabot Head	Grimsby	Thorold	Reynales	Irondequoit	Rochester	Gasport	Goat Island	Eramosa	Guelph	A-1 unit carb		A-2 unit salt		S B unit Sall		C unit	D unit sall	E unit carb		G unit shale	Boss lelande	Amherstburg	Lucas	Dundee	Marcellus		Kettle Point		Drift/Lake bottom	round level	340 ft.	ONTACTS:	PETROLEUM RESOURCE	CONSUMERS GAS CO.	CONSUMERS	
		REMARKS											707	687		666	602	586	568	560	504		426	334	270				212		160	120		86											7	S.		TOP ELEV	RESOURCE	GAS CU.	33004 HUMBERSTONE	AND THE PRINCE OF THE PARTY OF
			MOC.			CORED	CONDITION						LOGGED	LOGGING CO.:					4.50m	7.00m	SIZE			1		295	6	=												-2		SPL.T	ABANI	COMP		591 CONFI	LONGITUDE:	THICK.	CO-ORE	TOTAL DEPTH:		10
P	OIL GAS PRE	-		_	NIC		NOI	CO				1"- 771"   6	INTERVAL	GREAT	١٥٦	_	_		11.6#	20.0#	WEIGHT	CASING A	_	_		ď	- 701	ध	×			NIL	INTERVAL						NIC	1	Ш	SPL. TRAY No.: 3020		ED:		<u>.</u>			CO-ORDINATES: 2035			TO1: 14
BEBEORATED VES OBEN HOLE	SSURE	FINAL RESULTS				ANAL CORED INTERVAL	STORED	CORING RECORD				GRNL	TYPE LOGGED INTERVAL	SND	LOGGING RECORD			!	785 CEMENTED	CEMENTE	ET AT HOW SET	AND TUBING RECORD				U.			WATER RECORD					RECORD						NATURAL FLOW S.I.	AL GAS RECORD	O INDEX No.		-	12,	R 16, 1978		7-11 N	2035°N: 880°W	RBTD. SQ194	PERMIT No.: 4582	
5		LTS				REC ANAL			L				/AL TYPE							_	REC	0				SULPHUR	FRESH	TYPE					API GRAVITY							I. PRESSURE		186					SEQ: 1			+ 70	,0	

			1	T	Τ	WE			_	CI	AN		Τ	_		_		101		- 11			SIL	UR	1 A	N	_	1	_				_		\ D	EV	01	AIR	N	T	T	Son		19 GE		WELL	COL
			Total Depth So	PRECAMBRIAN		RIVER	DI ACK		TRENTON					CA AZAC	1					AMARF!															RIVER	DETECT		HAMILTON		PRT, LAMBTON	Drift/L	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	Z D	LL NAME:	COUNTY: WELLAND
		1 1	moles 782 #	2	Shadow Lake	Gull River	Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Queenston	Whirlpool	Manitoulin	Cabot Head	Grimsby	Thorold	Irondequoit	Rochester	Gasport	Goat Island	Eramosa		A-1 unit carb	anhy	A-2 unit salt		Sa		C unit	D unit sall		G unit shale	Bois Blanc	Amherstburg	Dundee	Morcellus		Kettle Point		Drift/Lake bottom	19 162	2	MN37	UNDERWATER	NSUMERS	7
		REMARKS										700	889		668	605	500	290	508		420	350	269				218		Т	133		88									9		TOP	JRCE	GAS CO.	33001 HU	TOWNSHIP:
			MOC: 7	+									-										+													+						701	ELEV   THICK			S	HUMBERSTONE
חס	OIL GAS PRE PRO				NIC	CORED INTERVAL REC.		co			758 MS	4157445	CO. GREAT				T F + C Z	7.000 20.00	WEIGHT	CASING				299*		INTERVAL STAT.	WA			NIL	INTERVAL N	NITINI NITINI				ZIL	INIT	SPL. TRAY No : 3203	NDONED:	D	SPUDDED: NOVEMBER	CONFIDENTIAL: NOVE	LATITUDE:	CO-ORDINATES:	RIG TYPE: ROT	-V PERN	LOT: 11
BEBEOBATED YES OBEN HOLE	OIL MIL GAS WIL PRESSURE PRODUCING INTVL.	FINAL RESULTS				ANAL CORED INTERVAL	STORED	CORING RECORD		0	000 500 TOO TOO	רסססרט	GUNS INTERNAL	LOGGING RECORD				281 CEMENTED	A	TUBING RE				Sul		(i	TER RECORD					INITIAL OIL RECORD				NATURAL FLOW S.I.	GAS RECORD			# !	MBER 2, 1977	5	Z	2020°N:1480°W	ELEV. 501*+	No	<
n		S		_		REC ANAL					מאס ב	4	1			_	_		REC.					SULPHUR	RESH	TYPE					API GRAVITY					PACOCORE	dirocado	33				1			94		

_		_	NUC		٧	_	_	-	ID VI	CI	A	N	T	Т	ow	NSH	IIP:		HUI	МВ	BEF	R S	_	_	.U F	RI A	_	т:	1	2		_	cc	ONC	ES:	SIOI	M:	_	ΕV	01	NIA	AN			_	AR		19		₩.E	CC
		Tordi Deprin Sampres	PRECAMBRIAN	CAMBRIAN	7	BLACK			TRENTON						CATARACT						AMABEL																	DIVERS.			HAMILTON		PRT. LAMBTON	Drift/L	Lake/G	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:	· D	WELL NAME:	000000000000000000000000000000000000000
		100	305		Shadow Lake	Gull River	Coboconk	Kirkfield	Verulam	Cobourg	Collingwood	Meaford Dundas	Queenston	Whirlpool	Monitoritie	Grimsby	Thorold	Reynoles	Irondequoit	Rochester	Gasport	Goat Island	Eramosa	Guelph	A-1 unit evap	anhy.	A-2 unit salt	carb.		D	C unit		E unit carb	F unit shale	G unit shale	Bass Islands	Bois Blanc	Lucas	Dundee	Morcellus		Kettle Point		Drift/Lake bottom	Lake/Ground level	300 ft.	NTACTS:		CONSUMERS	CONS	
		REMARKS											706	690	004	010	594	576	567	512		430	350	277				223		110	1740	1	90											9			TOP EL	RESOURCE	SAS CO.	33002 HUMBERSTONE	**********
		3400																																											592		EV. THICK.	0.70		BERSTONE 12	10
					NIL	CORED INTERVAL	CONDITION					-	NTER	LOGGING CO.:	-				7.00m 20	SIZE WE					004	70*	INTERVAL				NIL	NIERVAL						74.6	INTERVAL		SPL. TRAY No.:	ABANDONED:	COMPLETED:	SPUDDED:	CONFIDENTIAL:	LONGITUDE:	LATITUDE:	CO-ORDINATES:	$\rightarrow$	-	
	OIL GAS PRESSURE PRODUCING	<u>-</u> -				REC.	STORED	CORING	_	_		GRNL	1 TYPE	GREAT GUNS	- 8			760 0	20.0# 2921	SET AT	AND					_	STAT. LEV.	WATER R				NATURAL	INITIAL OIL RECORD		_		_	_	NATURA	INITIAL GAS RECORD	2606		NOVEMBER	NOVEMBER	$\infty$		42-57-07	1635 N: 98	•		A CONC.
	NIL NIL	FINAL RESULT				ANAL CORED INTERVAL	ED	RECORD					LOGGED INTERVAL	10000	0000			EMENTED	CEMENTED	HOW SET					30	וד ר	FLOW	ECORD				Т							L FLOW S.I.				8, 1977	5, 1977	8, 1978		Z	98°W 592*+	76	4580	•
		TS				REC ANAL						1	AL TYPE		-	_				REC					טרדחטא	FRESH	TYPE					API GRAVITY							PRESSURE		184					SEQ: 1		4 94			

			UN'	TY:	1	WEI	LL	A١	ID					Т	WC	NS	HIP	:	н	UM	BE	RS	S T	0 N	E			LOT	:	1:	2			со	NCE	SS	ION	1:	٧					_	Y	EA	_	_	97		2 12	0
D.S.T. (S) ON	LOG AND SA	Total Depth Sa	PRECAMBRI	CAMBRIAN	7	O BLACK	RC	_	VITRENTON	CI	A	4			CATARACT		I				AMABEL					JRI	A	N					_	_				2 < 0 / 2	0		ON	-		PRT. LAMBTON	Drift/L	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:		OPER ATOR:	"	COUNTY: WELLAND
TE E	SAMPLE DEPTHS	Samples (10 ft			Shadow Lake	Gull River	Coboconk	Xirkfield	Verulam	Cobourg	Collingwood	Menford-Dundas	Queenston	Whirlpool	Monitorilia	Corner Want	Cimebu	Thorold	Dougage	isonde quois	Bochester	Goat Island	Eramosa	Guelph		A-1 unit carb	anhy.	A-2 unit sall		S B Unit Som	,	C unit	uni†			Gunit shale	Does Islands	Amherstburg	Lucas	Dundee	Marcellus		Kettle Point		Drift/Lake bottom		300 ft	3	T T	CONSUMERS G	S	
	DISAGREE BY A	REMARKS MQC:											700	687	000	2005	000	# CO CO	200	500	200	430	1 2 2	270					217		Т	128		86											7 0/2	591	COP CCCV	(CE	GAS DEV	GAS CO.	33006 HUMBERSTONE	TOWNSHIP: HUMBERSTONE
SSURE DUCING INTY FORATEDYE	CONSTANT FACTOR OIL	FINAL RESULTS	1			CORED INTERVAL REC. ANAL CORED INTERVAL REC. ANAL		CORING RECORD				- 758° GRNL	INTE	LOGGING CO.: GREAT GUNS	OGGING BECORD			1141	TOTAL NO. OF THE CONTROL OF	DO ON SOLE OF MENTED	CITE WEIGHT SET AT HOW SET REC	200						INTERVAL STAT. LEV. FLOW TYPE	WATER RECORD			NIL	AL	INITIAL OIL RECORD					2	INTERVAL NATURAL FLOW S.I. PRESSURE	INITIAL GAS RECORD	SPL. TRAY No.: 2419 INDEX No. 188		ED: NOVEMBER 22,	SPUDDED: NOVEMBER 20, 1977	22. 1978		CO-ORDINALES ZIOUN	ROT	TOTAL DEPTH: 782 PBTD.	₽FRMIT No	RSTONE LOT: 12 CONC: V

		-	OU	NT	r:	W	EL	-	_	_	_	_		Т	ow	NSH	IP:	W	411	۱F	LE	ΕT	_			_	OT:	23	3	_		CC	ONC	ESS	SIOI	N:	-	1.1	_			_	-	ΈA	_	197	
	30		otal	P	3			T D	0	_	IA	N	$\dashv$	_	Ú.	_	Т	_	_			Т	SI	LU	RI	AN		_				_		7	+	Т		1		NIA I	_	9		ompi	EOL	FOL	VELL
	OEW ₩		Total Depth Sc	PRECAMBRIAN	2010	RIVER	BLACK		TRENTON						CATARACT					AMABEL																11/4 [17	RIVER			HAMILTON	I	PRT. LAMBTON	Drift/L	es start at	GEOLOGICAL CONTACTS:	DRILLING CO :	WELL NAME: G.
	Un 4÷ Un		Samples 800 ft.	2		Shadow lake	Coboconk	7:2:00	Verulam	Cobourg	Collingwood	Meaford-Dundas	Queenston	Whiripool	Manitoulin	Grimsby	Thoroid	Reynoles	Irondequoit	Rochester	Gasport	Goot Island	Guelph	erop.		A-2 unit sall			B unit salt	C unit snarker	C unit \$2//	E unit carb.	F unit shale	G unit shale	Bass Islands	Bois Blanc	Lucas	Dundee	Marcellus		Kettle Point		Drift / Lake bottom	lake/Ground level	7	PETROLEUM RESOURCE	ENDENDE
		REMARKS											750	723	0.70	635	631	621	609	556	470	7070	336				276			101	101	148											N		TOP	BLAKE	O. I. W
		S	MQC: 7	-				+		-											-	+				-				-	-	-			+	+		-						578	ELEV THICK.		INFLEET
						NTI NEC.	INTERVAL					NIC	LOGGED INTERVAL	LOGGING CO.:				5.50m 14.0m		SIZE WEIGHT	CASING	_			164 9	YVAL				215	IN ENVAL	1_		ĩ	6369- 6449	ï	. OCC - OTC	A A		SPL. TRAY No.: 25		9		CONFIDENTIAL:	LATITUDE:	CO-ORDINATES:	5-23-111 PE
	PRODUCING INTVL. 7	FINAL RESULTS				C. AIVAL CORED INTERVAL		CONTRO RECORD		_			TYPE LOGGED INTERVAL		OGGING RECORD			556 BAREFOOT	3 BAREFOO	SET A	AND TUBING RECORD						WATER RECORD				MAI ORAL FLOW	NITIAL OIL RECORD		MCF/D		SWEET GAS	SULPHUR GAS		INITIAL GAS RECORD	2587 INDEX No.		16,		W 16. 1977		2678 N: 545 W 578 +	PERMIT No.: 4516
OBEN HOLD	MCF/D PSIG 744*- 747*	STI				NEC. ANAL	000		-				WAL TYPE		-					T REC.	R		SULPHUR	SULPHUR	SULPHUR	HOTER					API GRAVIIT	0		200 PSIG		75 PSIG		S.I. PRESSURE		182				354. T	2	+ 20	6

Т			_	_	INTY	T	WE	_	I N	_			7	ТС	WN	SHIF	>;	AR	TH	IUF	₹	s	LU	RI		)T:		23	_		CO	ONCI	ESS	T		/ I DE	· v o	o N	IAI	N	Т	T	SAR		97 G P	_	£   C
				Total Depth Sa	PRECAMBRIAN		RIVER		Z C Z	1					CATARACT				1 2 2 2	>M> Bn				_			_	_					1		ZIVEX.	DETROIT		TANK CI CI	TON TON		PRT LAMBTON	Lake/G	Samples start at	GEOLOGICAL CONTACTS:	GEOLOGY BY:		WELL NAME: KENAR
				Samples 2523 ft	Z	Shadow Lake	Gull River	Coboconk	Kirkfield	Cobourg	Collingwood	Meaford Dundas	Queenston	Whirlpool	Cabot Head	Grimsby	Thoroid	Irondequoit	Rochester	Gasport	Goat Island	Guelph			A-2 unit sall			B unit salt	a C unit snarke	-	unit	_	Gunit shale	Bose Islands	Amherstburg	Lucas	Dundee	Morcellus		Kettle Point	MBTON CORE	Lake / Ground level	157 ft	NTACTS:	PETROLEUM		HA
			REMARKS	Н	2368	2333	2186	2164	2028	2697	1630	1080	737	730	645							76.1		157			Ī		3												1	0			RESOURCE	OIL & GAS	NO.6 ARTHUR
				MQC: 7										+								+													-							1440		ELEV THICK			JR 8-23-VI
						דווי	CORED INTERVAL	CONDITION			L	Z		1 OGGING CO .			7.00# 24		-	Н			Ш		INTERVAL				NIC	INTERVAL	NAC STATE			1	1	NIL	INTERVAL		SPL. TRAY No :	ABANDONED:	COMPLETED:	CONFIDENTIAL:	LONGITUDE:	11	CO-ORDINATES:	TOTAL DEPTH:	
PERFORATED	PRODUCING	GAS			-		REC.	STORED	CORING				TYPE TYPE	LOGGING		4	20.0# 655	157	100	62	_		_	-	STAT. LEV.	WATER		_		NATUKAL	INITIAL OIL		_	_	_		NATUR	INITIAL GA	3929		DECEMBER	JANUART	80-38-27	-	540 N		PERMIT NO.
TED OPEN HOLE	G INTVL.		FINAL RESULTS				ED INTERVAL	RED	CORING RECORD				LOGGED INTERVAL	RECORD		C. C. A. A. C. C. C. C.	CASING SHOE	CASING SHOE	HOW SET	AND TUBING RECORD	_			- 7	FLOW	0				FLOW	RECORD					_	NATURAL FLOW S.I.		INDEX No.		6, 1977	0 0	*	Z	525 E	D	4315
m			S		_	_	REC ANAL		-	_			TYPE			_			REC.						TYPE					API GRAVITY	CDAVITY						PRESSURE		17				2: 1		N		

_		П	_	YTY	: T	-	-	_	-	GT VI	-	-	_		ТО	NN:	SHI	P:	_	AR	TH	UF	_	91		PI	A N	_	- 1	2 4			_	00	NCE	SS	ION		_	/ I	_			7	,	-	_	_	97		<b>E</b>
	CX 1 - 1 C X F	1	Total Depth Sc	PRECAMBRIAN	-	-	BLACK	T	INEMION	_	Ī				CALANAC	2					AMABEL			31		- RI	A. F.					_			_	T	1	RIVER	0		3	-		PRT. LAMBTON	Drift/I	Lake/(	Samples start at	GEOLOGICAL CONTACTS:	DRILLING CO:		WELL NAME
	O AMERICA		Samples 2395 ft	2	Suddow Cake	OCT TIVE	Coboconk	711010	Verdicity.	Copourg	Collingwood	Meaford Dundas	Queenston	Whirlpool	Manitoulin	Cabot Head	Grimsby	Thorold	Reynales	Irondequoit	Rochester	Good Stone	Eramosa	Gueiph	екар		anhy			a B unit salt	narker	C unit			F unit shale	Gunit ishale	Boss Islands	Amherstburg	Lucas	Dundee	Marcellus		Kettle Point		Drift/Lake bottom		134 ft	101	ALLIED DR.	KENARTHA O	KENARTHA
		REMARKS	1000	2386	2330	2130	2100	2000	2020	1000	OTOT	1130	733	730	694							611	200			336		200	2			212		138	134										CN			TOP	n n o	7	NO.8 ARTE
			MQC: 6																																	1	+								1	1438	-	ELEV THICK		1	UR 8-24-VI
					NTL	CORED INTERVAL			T			NIC	LOGGED INTERV	LOGGING CO.:			_	7.00m 23.0m		10.75# 40.0#	7	200	_		205*	155*	128*	1		1		NIL	INTERVAL			_		_	NIC	INTERVAL			• •	Ö		P		- )	RIG TYPE:	TOTAL DEPTH:	
DEBEODATED	PRESSURE					REC. ANAL CORED INTERVAL		CONING MECONE			_	_	TYPE		LOGGING RECORD			OH 710 PACKER	199	138	SET A				40*	40.		WATER RECORD					NATURAL FLOW	INITIAL OIL RECORD						NATURAL FLOW	INITIAL GAS REC		N		SEPTEMBER 7.	-  -		42-51-20 N	SOOTH ELEV.	2395 PB.T.D.	PERMIT No.
OPEN HOLE	L NIL	FINAL RESULTS	_			INIERVAL KEC	1	7.0	3				LOGGED INTERVAL		ORD				NG SHOE		THOW SET	0000	_		FRESI	FRESH		-		_		-	OW API GRAVITY	ORD	_				_	OW S.I. PRESSURE		X No. 16		1977	1977	1978	SEQ:		1438*+ 5		5454

T		FOS	C	31	2 0	1	_	O F	_	_	-	-					NSI	_		_				SI	LU	RI	A N	_	2	_		_	_	_		ON:	E	JE Y	v o	NI.	AN		Γ			977 GEOLOGY	OPER	000
D C T (C) DN		FOSSIL HILL		Total Denth Sc	PRECAMBRIAN	200	RIVER	BLACK		XEN CN						CATARACT					AMABEL																RIVER	DETROIT		HAMILTON		PRT LAMBTON		Lake/G	Samples start at	GEOLOGY BY:	OPERATOR:	
		,L 651		Samples 2400	Z	Circulation Cont.	Shodow In	Coboconk	2 TATIGIO	Verdicin	Copourg	Commywood	Meaford Dundas	Queenston	Whirlpoot	Manitoulin	Cohot Hand	noroid	Reynales	Irondequoit	Rochester	Gasport	Goat Island	Guelph			A-2 unit s	0	!	B uni	Cunit	eni+			Bass Islands	Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus	Kettle Point		Drift/Lake bottom	Lake/Ground level	182	1	KENARTHA	KENARTHA
			1 I		2369	+	DA TO	240	200	3770	0000	+	1630	┝	707	+						560	1	252	Н	Carb 240	sall	1	anhy	Salt	shale	salt	carb.	shale	ds		9					-	-		<b>⇒</b>	RES	OIL	NO.
				MQC: 7	90	n c	M C	5		n			94	UN .	7	77	70					0		2		5		78														-	U	1423	CCC.	חל	55	RTHIR R-25-VI
PERFORATED	PRODUCING INTVL	GAS	[7]				KVAL KEC. ANAL	210	000	COBING BE			NIC	LOGGED INTERVAL TYPE LO	LOGGING CO.:		46042	20.00	8.63m 24.0# 355° CA	40.0# 1821	WEIGHT SET A	CASING AND TUBI				3600	ERVAL STAT. LEV.	WATER RE			Z	AL NATURAL	INITIAL OIL R					059 4	INTERVAL NATURAL		NDONED: AUGUST	AUGUST	YAM	AL: SEPTEMBER	LONGITUDE: 80-38-18 W	CO-ORDINATES: 498'M: 506	TOTAL DEPTH: 2500*	TOTAL CONC.
OPEN HOLE	NTVL.	ZZ	FINAL RESULTS				CORED IN ERVAL REC ANAL		CORD	CORP				LOGGED INTERVAL TYPE		RECORD	SHOF	3OHS.	CASING SHOE 355	SHOE	HOW SET REC.	TUBING RECORD	_			72500	FLOW TYPE	RECORD			_	FLOW API GRAVITY	RECORD		_			UR	FLOW S.I. PRESSURE	GAS RECORD			17, 1977	1977	SEQ: 1	36		22.77

		רדאטכ	T		O R	_	_		AN		1	OW	NSF	IIP:	G	LA	NI	OF	D	SI	LUI	RIA		T:	1	2	_		co	ONCE	SSIC	ON:		VI	_	NI	AN	_		_	AR:		97		ľ
	Con Con Con Con Con Con Con Con Con Con	PRECAMBRIAN	CAMBRIAN	RIVER	BLACK		TRENTON					CATARACT					AMABEL																RIVER	DETROIT		HAMILTON		PRT. LAMBTON	Drift/I	Lake/C	Samples start at	GEOLOGY BY: PLIKUL	DRILLING CO:	WELL NAME:	
		NA 500 **	distance of the second	Shodow Loke	Coboconk	Kirkfield	Verulam	Cobourg	Meaford Dundas	Queenston	Whirlpool	Manitoulin	Cabot Head	Thorold	Reynales	irondequoit	Rochester	Gasport	Eramosa	Guelph	A-1 unit evap.	anhy	A-2 unit salt	carb.		B unit salt	Cunit				Bass Islands	Bois Blanc	Amherstburg	Lucas	Dundee	Marcellus	Kettle Point		Drift/Lake bottom		54 11	PETROLEUM RESOURCE	MOERSCHFELDER, F.	WE AL LE TO	7
	REMARKS	MOC.								844	944	544	381		338	326	290	247	180	54																			}-A	670	ŀ	TOP FLEV	DER, F.		J
				CORED INTERVAL R	CONDITION				NIC	LOGGED INTERVAL	LOGGING CO.:				4.50m 11.5#	-	SIZE WEIGHT	CASING			168*	222					NIC	A	н				448*- 452*	355*- 360*		SPL. TRAY No.: C		COMPLETED:		CONFIDENTIAL:	LONGITUDE:	CO-ORDINATES:	0	1012	
OIL NIL GAS 16 MCF/D PRESSURE 70 PSIG PRODUCING INTVL.	FINAL RESULTS			REC. ANAL CORED INTERVAL REC.	STORED	CORING RECORD				TYPE LOGGED INTERVAL		LOGGING RECORD			330 0	54 PARFFOO	SET A	G AND TURING RECORD			22°	SULPHUR		WATER RECORD				NATURAL FLOW API GRAVITY	INITIAL OIL RECORD					CF/D	NATURAL FLOW S.I PRESSURE			19,	6,	1 18, 1977		365 N:1947 M	AB ELEV. 670"+ 1"	PERMIT No.: 4014	1

T		_	_	TY	Т	_	_	_	VIC		N	Т	10	NW	SHII		6	LA	NF	OR	_	SIL	UR		-		22	-	_	-	CON	GES	5510	14.	-	FV	_	NIA	N			YEA		_	97	-	
		Total Depth Samples	PRECAMBRIAN	CAMBRIAN		RIVER		-	TRENTON			1		CATARACT			1		AMABEL																RIVER	-	_	HAMILTON	_	PRT. LAMBTON	Drift/	Lake/	Samples start of	GEOLOGY BY:	DRILLING CO :	OPER ATOR:	
		amples 4/4 ft	114.11		Shadow Lake	Gull River	Coboconk	Kirkfield	Verulam	Collingwood	Meaford Dundas	Queenston	Monitoulin	Cabot Head	Grimsby	Thorold	Designation	rondequoit	Gasport	Goat Island	Eramosa	Guelph	A-1 unit carb		A-2 unit salf		8 unit		C unit	D unit salt	F unit snale	-	Bass Islands	Bois Blanc	Amherstburg	Dundee	Morcellas	Marcallia	Kettle Point	A.	Drift/Lake bottom	Lake/Ground level	50 ft	PETROLEUM			P. HOURNS
	ZE MAX X		-									420		349	310	C	202	202	195	125	120	50						3													1	646	מרכיי	RESOURCE	DER, F.	0100	DIBNS GI ANEODO 4-22-VII
		-				CORED	CONDITI					LOGGED INT				4.50	0.00	9 63				110	57	470	INI					-					412	N. P. C. F.	I I	SPL. TRAY No	ABANDONED:	COMPLETED:			-	AUINT O	RIG TYPE	TOTAL	2=V11
PRE PRE 41	OIL		_	_		CORED INTERVAL REC.		COL	_		ZIL	INTERVAL				HC . F	1 to 0	WEIGHT	<b>⊣</b> ⊌	ł	_	_	_		INTERVAL STAT. LEV.	WA				INTERVAL N	INITIAL I	_			4234	10 EKVAL N	INIT						JDE: 79-49-01 W			DEPTH: 4749	
SSURE 6 DUCING INTVL. [21- 4231	NIC AINAC RE					ANAL CORED INTERVAL	STORED	CORING RECORD			_	TYPE LOGGED INTERVAL	LOGGING RECORD				SOT CASING SE	WOH	UBING RE				35		-1	WATER RECORD				NATURAL FLOW	OI BECORD				19 MCF/D	NATURAL FLOW	GAS			17,	JULY 28. 1977	17,	1024	Me	ELEV.	PB.T.D.	40. 444
S PSIG 323 - 335	SOLTS	-				AL REC ANAL		-				RVAL TYPE					SHOE	SET REC	1			SULPHUR	SULPHUR	FRESH	TYPE					API GRAVITY					an psig			38		7	7	7	SEO: 1		646*+ 1*	0	20

